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Organized in 1933 and incorporated in 1970, EEI provides a principal forum where electric utility people exchange information on developments in their business, and maintain liaison between the industry and the Federal government. Its officers act as spokesmen for investor-owned electric utility companies on subjects of national interest.

Since 1933, EEI has been a strong, continuous stimulant to the art of making electricity. A basic objective is the "advancement in the public service of the art of producing, transmitting, and distributing electricity and the promotion of scientific research in such field." EEI ascertains factual information, data and statistics relating to the electric industry, and makes them available to member companies, the public, and government representatives.

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OF THE ELECTRIC UTILITY INDUSTRY/1986

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PUBLICATIONS PREPARED BY THE STATISTICS DEPARTMENT

Capacity and Generation, Non-Utility Sources of Energy.
The first publication presenting data compiled from electric utility reports and other sources on the 1985 capacity and electric generation of non-utility sources (independent producers) of energy is now available. Both capacity and electric generation, by energy source, are provided on a Census Division and total United States level, broken out by cogenerators, small power producers, and self generators. Also included are data on the qualification status of the cogeneration and small power facilities under PURPA and yearly additions of capacity from 1980 through 1985. Electricity received by investor-owned electric utilities from non-utility sources is given by Census Division for 1985 and 1986 with total electric utility receipts for 1983-1986. Published annually in the winter. 37p.

Catalogue of Investor-Owned Electric Utility Companies Operating in the United States.
Complete reference of investor-owned electric utility names and addresses, arranged on a state basis according to location of principal office. Holding companies and systems, and jointly-owned companies are cross-referenced with operating subsidiaries. Ranking of companies according to number of ultimate cus omers is presented. Published annually in the winter. 42p.

Data Tape of Tables Contained in the Statistical Yearbook.
The reel of magnetic tape (standard label, 6250 BPI, EBCDIC) contains 72 files corresponding to all of the tables printed in the hard-copy version of the Statistical Yearbook. Each file is identified by a data set name in the form: TABLEnn. Documentation is provided showing positional layouts of the data elements in each file. The incorporation of this tape into a data base will facilitate the retrieval and manipulation of series dealing with most aspects of the electric utility industry.

Digest of Utility Financial Ratios.
Provides a method of calculating approximately 100 ratios used by the utility industry in analyzing financial reports. Categories of ratios include Earnings and Return; Common Dividend; Coverages, Interest and Preferred Dividend; Balance Sheet; Revenue and Sales; Expense; Tax; Plant; Depreciation; other ratios, such as funds used during construction as percent of earnings and per share, capital expenditures, etc. Prepared by EEI Financial Ratios Subcommittee of the Statistical Committee. 28p.

EEI Pocketbook of Electric Utility Industry Statistics.
A pocket-sized quick reference of national electric utility industry data, some dating from 1902 to the present. Categories include data on installed capacity, generation, capital and finance, sales, revenue, customers, fuels and private and public ownership. Published annually in late fall. 36p.

Electric Power Annual Report.
Replaces and combines the Year-End and the Annual Electric Power Surveys. Historical and projected data are presented concerning the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment in the U.S. as of the end of the year. Power supply data including peak loads, capability to meet loads, kilowatthour requirements, load factors, and comparison between summer and winter seasons are shown on a total industry basis for each of the nine reliability councils and for total contiguous U.S. Also included are orders and shipment information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems. Published annually in the summer. 44p.

Glossary of Electric Utility Terms.
Defines the principal statistical reporting terms commonly used in the electric utility industry. Since the last revision in 1970 the Glossary has been expanded to include information and terms on Load Management/Rate Design, Nuclear Generation and additional terms on financial and general operations. Prepared by the EEI Glossary of Electric Terms Subcommittee of the Statistical Committee. 56p.

Guidelines for Defining & Classifying Electric Customers by Major Energy Use.
Provides guidelines within the electric utility industry for counting, classifying, and summarizing customers, categorizing sales and revenues by major energy use, and determining average use and average revenue per customer. The report contains definitions as well as the application of the definitions to specific situations and problem areas. Historically, the industry has based its classifications on rate schedules and it is probable that the recommendations in this report are unsuitable for rate analysis. However, the recommendations are offered as a basis for making a more significant market-oriented representation of sales statistics available to the industry, security analysts, and others with interest in electric utilities. 8p.

Post-Summer Electric Power Survey.
Reports results of a scheduled generating additions survey as of July 1, and a summer peak load survey as of September 15. There are listings of actual additions to generating capacity during the first half of the year and of scheduled for the future. Contains first actual regional capability, peak load, and percent capacity margin values for the summer season just completed. NERC's latest ten-year fuel projections are presented in terms of both regional generation from each energy source, and in physical units of coal, oil and gas to be burned for electric generation. Also includes information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric utility systems, orders and shipments during the first half and shipment backlogs as of July 1. Published near the end of eah year. 40p.

Problems and Limitations of Intercompany Comparisons of Investor-Owned Electric Utilities.
Assists analysts and others who may wish to make industry-wide comparisons of investor-owned electric utilities. The report illustrates some of the main factors that can facilitate valid intercompany differences in performances. The Executive Summary briefly examines some of the more important factors that lead to performance differences between companies. The Discussion Section covers in greater detail many of the factors that can generate invalid and inaccurate comparisons. Prepared by EEI Problems and Limitations Subcommittee of the Statistical Committee. 51p.

Statistical Releases.
Yearly subscription includes: 1) Electric Output, issued weekly for nine geographic divisions and total U.S.; data for latest 52-week period and calendar year to date; latest quarterly data for installed capacity, generation, customers and sales 2) Quarterly Statistical Report, presents latest sources of electricity, including net generation, net imports of electricity, and net amounts available for distribution; customers, sales, and revenues by class of electric service; average use and revenue data 3) Advance Release, issued in summer, includes selected tables that appear later in Statistical Yearbook 4) Statistical Yearbook of the Electric Utility Industry.

Statistical Yearbook of the Electric Utility Industry.
Data compiled from company reports and other sources on operational and financial aspects of the total electric utility industry. Categories include national and state statistics on installed capacity; electric generation and supply; sales, revenue and customers by class of service; investor-owned data are presented for operating and related ratios; fuel use; financial; and general economics series. Prepared under the general guidance of the EEI Statistical Committee. Published annually in the fall. 101p.

Statistics on Fuel Used to Generate Electricity by the Electric Utility Industry.
Fuel data are presented for the United States by state and Census Division, detailed by type of fuel (coal, oil, natural gas and nuclear) for both the Total Electric Utility Industry and the Investor-Owned segment. Heat rate, average Btu content, and cost of fuel per kilowatthour, per million Btu, and per unit consumed are shown for the most recent and four preceding years. Published annually in the fall. 75p.

Order card located in back of book.

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Scope and Coverage

This publication presents data on the electric utility industry, including generation, energy sales, customers and revenues, financial and economic. These data are collected and compiled from various sources as indicated on page 3. In all sections, except the Financial Section, data are presented for Investor-Owned Electric Utilities and the Total Electric Utility Industry. Dissimilarity between the investor-owned and the publicly-owned segments of the electric utility industry would make overall financial data incompatible even if it were available. Therefore, in the Financial Section, data are shown for Investor-Owned Electric Utilities only.

1986 in Review

The installed generating capacity of the electric utility industry at December 31, 1986 was 707,684 megawatts, an increase of 2.8 percent over December 31, 1985.

No. of units added during 1986

Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
4	16	8	3

Statistics on capacity and generation from pumped storage are included in hydroelectric and those for gas turbine are included in conventional steam.

Comparison of the 1986 and 1985 total electric utility industry generation data shows the following:

- Generation of electricity in the United States increased approximately 0.7 percent.
- Generation by oil increased 36.3 percent and represented 5.5 percent of total generation.
- Generation by hydroelectric power increased 3.4 percent and natural gas production decreased 14.9 percent. Hydroelectric power and natural gas represented 11.7 percent and 10.0 percent, respectively, of total generation.
- Generation by nuclear power plants increased 7.9 percent and represented 16.6 percent of total generation. Generation from coal-fired units declined 1.2 percent and represented 55.7 percent of total generation.

Electric output, representing the total amount of electricity available for distribution, was 1.7 percent higher in 1986 than in 1985. The heat of the summer contributed to the highest weekly electric output to date in the week ending July 26, 1986, showing a record of 57.3 billion kilowatthours.

Energy sales to ultimate customers totalled 2,355 billion kilowatthours, an increase of approximately 2.1 percent over the previous year. Total utility revenues from ultimate customers were $152.8 billion in 1986, an increase of 2.4 percent over the previous year. Revenues increased 4.2 percent and 3.8 percent from residential and commercial customers, respectively, while industrial revenues decreased 1.4 percent due primarily to a slight reduction in industrial sales.

The total number of ultimate customers at December 31, 1986 was 103,622,570. Approximately 88.3 percent of this total were residential customers. In 1986 residential customers increased 2.0 percent from 1985. In the last 10 years residential customers have increased 23.5 percent.

For the investor-owned electric utilities the 1986 total electric operating revenues increased 1.6 percent to $127.6 billion. Contributing to the increase in revenues were economic growth and increased sales. Electric operating expenses increased only $10 million. The cost of fuel represented 46.1 percent of total operation and maintenance expenses, down from 52.1 percent in 1985. Electric operating income increased 8.2 percent to $26.2 billion. Retained earnings reached $49.4 billion, a 12.4 percent increase over the $43.9 billion recorded in 1985.

In 1986 electric plant construction expenditures for the investor-owned electric utilities decreased to $31.0 billion (including nuclear fuel) from $33.3 billion in 1985. Of this 1986 total, $5.7 billion was the allowance for funds used during construction (AFUDC), a non-cash item of current income which is added to the plant account for future collection.

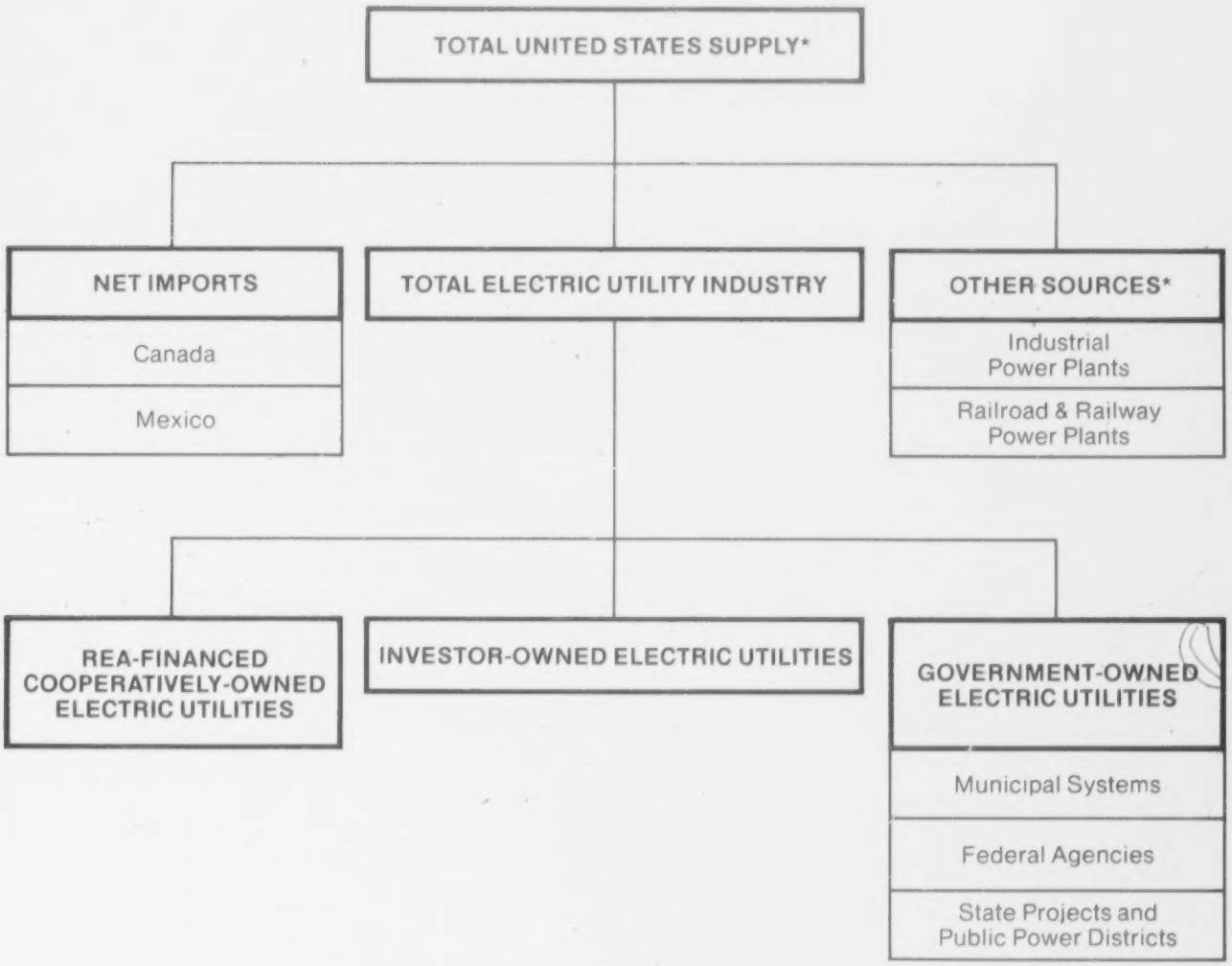
Total interest charges aggregated $13.5 billion up 5.9 percent when compared to 1985. The average interest rate on new long-term debt issued during 1986 was 9.8 percent.

Since 1976 long-term debt as a percentage of total capitalization has gradually declined from 51.9 to 48.0 percent in 1986. Correspondingly, common capital stock equity increased from 35.5 to 43.3 percent by year-end 1986.

The average common stock dividend payout ratio before extraordinary items increased to 69.1 percent in 1986 from 68.3 percent in 1985. The earned return on average common equity before extraordinary items averaged 13.3 percent from 13.8 percent in 1985. During 1986, the investor-owned electric utilities were granted an estimated $2.88 billion in rate increases on an annualized basis. This is 38.5 percent below the $4.69 billion granted in 1985. AFUDC as a percentage of net income after preferred dividends and before common dividends was 37.0 percent.

In 1986 the investor-owned electric utilities raised $11.9 billion in new long-term financing, a 4.5 percent increase from 1985. Of this total, 86.7 percent was long-term debt, 5.1 percent was common stock and the remaining 8.3 percent was preferred stock. Additionally, the industry raised an estimated $2.0 billion in new equity capital as a result of participation by stockholders in dividend reinvestment plans. The new equity capital included not only dividend reinvestment, but also supplementary cash contributions by stockholders.

UNITED STATES SOURCES OF ELECTRIC GENERATION BY TYPE OF OWNERSHIP



*Does not include generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.

	Total Electric Utility Industry			
			Increase	
	1986	1985	Amount	Percent
GENERATING CAPACITY—SECTION I (kW in Thousands)				
Installed Name Plate at Beginning of Year Added During Year Retired During Year Net Adjustments*	688,733	672,462	16,271	2.4
Balance at December 31	707,684	688,733	18,951	2.8
ELECTRIC POWER SUPPLY—SECTION II (kW in Thousands)				
Capability at Time of Summer Peak Load (Contiguous U.S.)	633,291	621,597	11,694	1.9
Non-Coincident Summer Peak Load (Contiguous U.S.)	476,320	460,503	15,817	3.4
Capacity Margin (Contiguous U.S.)	24.8%	25.9%		
GENERATION—SECTION III (kWh in Millions)				
Hydro	290,844	281,149	9,695	3.4
Conventional Steam	1,780,853	1,803,323	(22,470)	(1.2)
Nuclear Steam	414,038	383,691	30,347	7.9
Internal Combustion	1,556	1,662	(106)	(6.4)
Total Generation	2,487,310**	2,469,841**	17,469	0.7
Received from Industrial Sources	41,678	28,300r	13,378	47.3
Imports from Canada and Mexico	40,713	45,901	(5,188)	(11.3)
Total Energy Input†	2,569,701**	2,544,042**r	25,659	1.0
FUEL—SECTION IV				
Average Cost of Fuel per net kWh	1.92¢	2.27¢	(0.35)¢	(15.4)
Lbs. of Coal per Net kWh Generated	0.989	0.990	(0.001)	(0.1)
Average Btu per Net kWh Generated	10,423	10,429r	(6)	(0.1)
ENERGY—SECTION V (BTUs in Quadrillion)				
Annual Production of Energy	64.25p	64.78r	(0.53)	(0.8)
Total Energy Supply & Disposition	77.94p	78.19r	(0.25)	(0.3)
ENERGY SALES—SECTION VI (kWh in Millions)				
Residential	820,826p	792,875r	27,951	3.5
Commercial	630,260p	605,865r	24,395	4.0
Industrial	817,396p	820,301r	(2,905)	(0.4)
Street and Highway Lighting	14,921p	14,644r	277	1.9
Other	71,907p	72,197r	(290)	(0.4)
Total Sales to Ultimate Customers	2,355,311p	2,305,882r	49,429	2.1
Exports to Canada and Mexico	4,816	4,965	(149)	(3.0)
Energy Accounted for but Not Sold	9,781p	11,169r	(1,388)	(12.4)
Lost and Unaccounted for	199,793p	222,026r	(22,233)	(10.0)
Total Disposition of Energy†	2,569,701p	2,544,042r	25,659	1.0
kWh Used per Customer (Average for Year)				
Residential	9,038p	8,906r	132	1.5
Commercial	56,930p	56,109r	821	1.5
Total Ultimate Customer	22,925p	22,903r	22	0.1
CUSTOMERS AT YEAR END—SECTION VII (Thousands)				
Residential	91,597p	89,820r	1,777	2.0
Commercial	11,180p	10,921r	259	2.4
Industrial	502p	500r	2	0.4
Street and Highway Lighting	161p	158r	3	1.9
Other	183p	181r	2	1.1
Total Ultimate Customers	103,623p	101,579r	2,044	2.0
REVENUES—SECTION VIII (Millions of Dollars)				
Residential	$ 61,030p	$ 58,592r	$ 2,438	4.2
Commercial	45,738p	44,061r	1,677	3.8
Industrial	40,777p	41,368r	(591)	(1.4)
Street and Highway Lighting	1,507p	1,476r	31	2.1
Other	3,763p	3,666r	97	2.6
Total Revenues from Ultimate Customers	$ 152,814p	$ 149,162r	$ 3,652	2.4
Exports to Canada and Mexico	14	25	(11)	(44.0)
Total Revenues from Sales of Energy	$ 152,828p	$ 149,188r	$ 3,640	2.4
Average Annual Revenue per Customer				
Residential	$ 672.01p	$ 658.11r	$ 13.90	2.1
Commercial	$4,131.38p	$4,080.42r	$ 50.96	1.2
Total Ultimate Customers	$1,487.42p	$1,481.57r	$ 5.85	0.4
Average Revenue per kWh				
Residential	7.44¢p	7.39¢r	0.05¢	0.7
Commercial	7.26¢p	7.27¢r	(0.01)¢	(0.1)
Total Ultimate Customer	6.49¢p	6.47¢r	0.02¢	0.3
ECONOMICS & OTHER—SECTION X				
Miles of Overhead Electric Line, 22 kV and Above	611,929p	607,833r	4,096	0.7
Employees of Investor-Owned Electric Utilities	519,046	524,503	(5,457)	(1.0)
Plant Ratio-kWh Generated/kW of Capacity‡	3,562	3,629	(67)	(1.8)

Note: Total may not equal sum of components due to independent rounding.

** Represents reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.*

*** Total includes generation by wind (1985-5.8 kWh in millions; 1986-4.2 kWh in millions) and generation by solar (1985-10.6 kWh in millions; 1986-14.0 kWh in millions).*

† Excludes industrial for own use. ‡ On basis of installed name plate capacity.

p Preliminary. r Revised. ( ) Denotes negative figure.

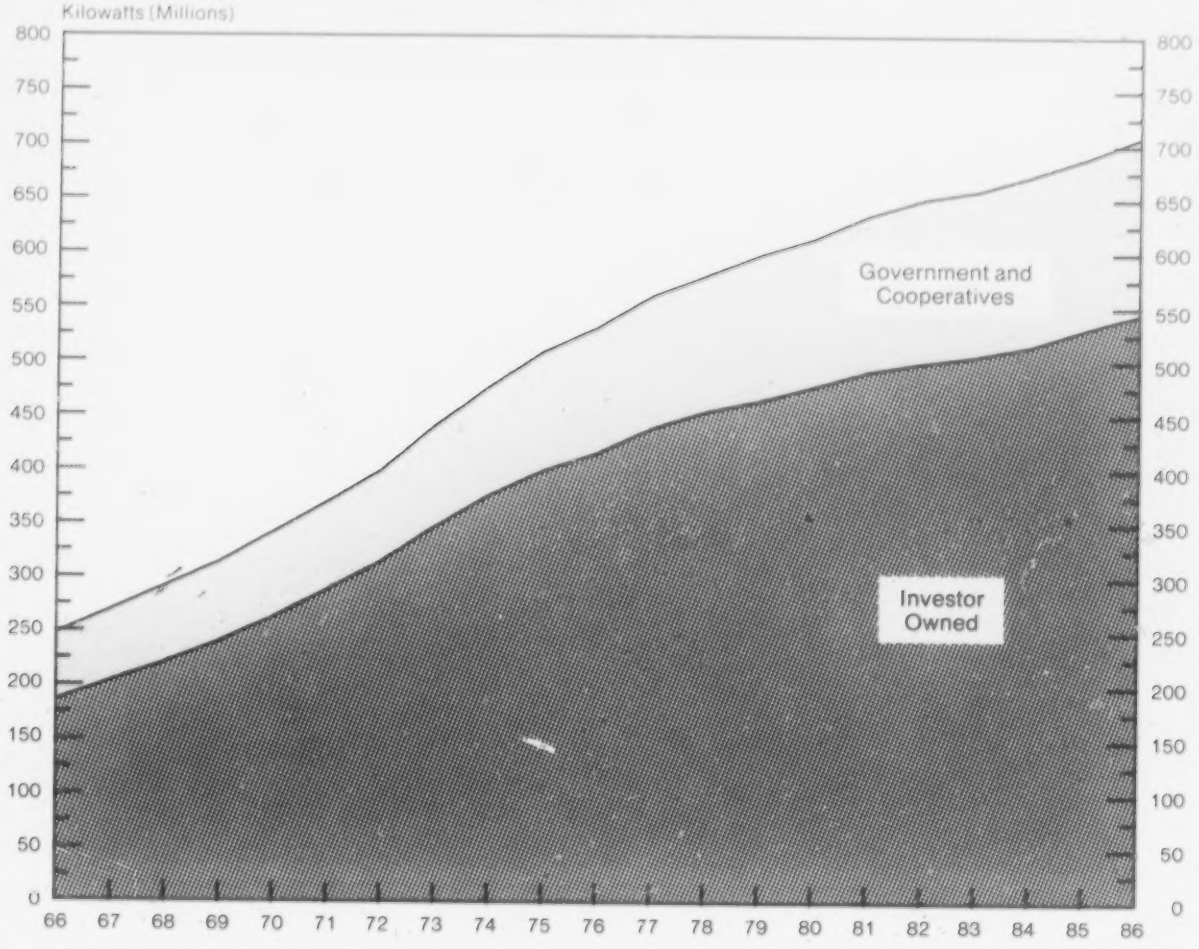
FINANCIAL – SECTION IX (Millions of Dollars)	Investor-Owned Electric Utilities 1986	1985	Increase Amount	Percent
COMBINED BALANCE SHEETS				
ASSETS				
Utility Plant:				
Electric	$348,400	$317,392	$31,008	9.8
Other	21,698	18,954	2,744	14.5
Total Utility Plant	370,097	336,345	33,752	10.0
Accumulated Provision for Depreciation and Amortization	102,243	92,567	9,676	10.5
Net Utility Plant	267,854	243,778	24,076	9.9
Nuclear Fuel	15,009	13,979	1,030	7.4
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	6,466	5,461	1,005	18.4
Net Nuclear Fuel	8,543	8,518	25	0.3
Construction Work in Progress	74,978	84,092	(9,114)	(10.8)
Net Total Utility Plant	351,375	336,389	14,986	4.5
Other Property and Investment	11,887	9,557	2,330	24.4
Total Current and Accrued Assets	38,824	40,427	(1,603)	(4.0)
Total Deferred Debits	21,635	16,194	5,441	33.6
Total Assets	$423,722	$402,567	$21,155	5.3
CAPITALIZATION AND LIABILITIES				
Capitalization:				
Common Capital Stock	$ 51,658	$ 51,556	$ 102	0.2
Other Paid-In Capital Excluding Retained Earnings	37,366	34,036	3,330	9.8
Retained Earnings	49,362	43,902	5,460	12.4
Total Common Capital Stock Equity	138,386	129,495	8,891	6.9
Preferred Stock	27,947	30,614	(2,667)	(8.7)
Total Long-Term Debt	153,428	148,944	4,484	3.0
Total Capitalization	319,761	309,052	10,709	3.5
Total Other Non-Current Liabilities	5,102	3,278	1,824	55.6
Total Current and Accrued Liabilities	40,419	38,718	1,701	4.4
Total Deferred Credits and Operating Reserves	22,815	21,509	1,306	6.1
Contributions in Aid of Construction	160	156	4	2.6
Deferred Income Taxes	35,465	29,853	5,612	18.8
Total Liabilities	$423,722	$402,567	$21,155	5.3
COMBINED INCOME STATEMENTS:				
Operating Revenues – Electric Department	$127,552	$125,547	$ 2,005	1.6
Operating Expenses Including Maintenance	67,663	70,300	(2,637)	(3.8)
Depreciation, Depletion and Amortization	11,165	10,302	863	8.4
Taxes	22,534	20,748	1,786	8.6
Total Operating Expenses	101,360	101,350	10	*
Operating Income	26,191	24,197	1,994	8.2
Other Income (Non-Operating), Net	6,648	7,411r	(763)	(10.3)
Other Departments	1,253	1,333	(80)	6.0
Income before Interest Charges (Gross Income)	34,093	32,942r	1,151	3.5
Total Interest Charges	13,544	12,794	750	5.9
Income before Extraordinary Items	20,549	20,148r	401	2.0
Extraordinary Items	(308)	(1,659)	1,351	N/A
Net Income	20,241	18,489r	1,752	9.5
Preferred Dividend Charges	2,747	2,877	(130)	(4.5)
Available for Common Stock	17,494	15,613r	1,881	12.0
Common Dividends	12,303	11,782r	521	4.4
Net Income After Dividends	$ 5,190	$ 3,830	$ 1,360	35.5
Electric Utility Financing:				
Long-Term Debt	$ 21,391	$ 12,517	$ 8,874	70.9
Preferred Stock	1,681	655	1,026	156.6
Common Stock	640	1,650	(1,010)	(61.2)
Total Capital	$ 23,711	$ 14,822	$ 8,889	60.0
Construction Expenditures:				
Production	$ 18,483	$ 21,372	$ (2,889)	(13.5)
Transmission	1,761	1,863	(102)	(5.5)
Distribution	7,248	6,590	658	10.0
Other	3,532	3,468	64	1.8
Total	$ 31,023	$ 33,294	$ (2,271)	(6.8)

Note: Total may not equal sum of components due to independent rounding.
** Less then one tenth of one percent.*
r Revised. ( ) Denotes negative figure. N/A Not applicable.

GENERATING CAPACITY
SECTION I

CHART I-A

INSTALLED GENERATING CAPACITY
TOTAL UNITED STATES



Based on Table 1, page 7.
Sources: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759),* Annual Electric Generator Report *(EIA-860), and* Annual Electric Utility Report *(EIA-861).*

TABLE 1

INSTALLED GENERATING CAPACITY IN THE UNITED STATES

KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31st	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States
1986	**544,199**	**163,485**	**707,684**	**N/A**	**707,684****
1985	530,405	158,328	688,733	20,062	708,795
1984	514,863	157,600	672,462	17,371e	689,833
1983	505,487	152,695	658,182	16,765e	674,947
1982	499,111	150,994	650,105	16,938e	667,043
1981	490,767	144,041	634,808	17,142e	651,950
1980	477,083	136,612	613,695	17,323e	631,018
1979	464,144	134,299	598,443	17,436	615,879
1978	453,647	125,665	579,312	19,391	598,703
1977	438,385	121,976	560,361	19,245	579,606
1976	415,504	115,658	531,162	19,113	550,275
1975	399,036	109,378	508,414	19,177	527,591
1974	376,122	100,046	476,168	19,351	495,519
1973	346,476	93,399	439,875	19,377	459,252
1972	314,353	84,400	398,753	18,768	417,521
1971	288,301	80,779	369,080	19,297	388,377
1970	262,675	78,415	341,090	19,237	360,327
1969	240,078	73,271	313,349	19,257	332,606
1968	220,766	70,292	291,058	19,123	310,181
1967	203,580	65,672	269,252	18,933	288,185
1966	185,671	62,172	247,843	18,973	266,816

Note: Total may not equal sum of components due to independent rounding.
** Includes non-electric utility industry facilities.*
*** Excludes Other Sources.*
N/A Not available.
e Estimated.
Sources: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759), Annual Electric Generator Report (EIA-860), Annual Electric Utility Report (EIA-861), *and Edison Electric Institute.*

TABLE 2

INSTALLED GENERATING CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31st	Total Electric Utility Industry†	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Capacity of Generators Driven by All Types of Prime Mover)							
1986	**707,684**	**544,199**	**26,430**	**137,055**	**38,584**	**63,864**	**34,607**
1985	688,733	530,405	24,574	133,754	37,017	63,710	33,027
1984	672,462	514,863	24,738	132,862	36,717	63,304	32,841
1983	658,182	505,487	22,202	130,493	36,598	62,973	30,923
1982	650,105	499,111	21,463	129,530	35,819	62,544	31,168
1981	634,808	490,767	18,406	125,635	35,125	60,982	29,527
1980	613,695	477,083	15,422	121,190	34,598	59,083	27,509
1979	598,443	464,144	13,837	120,462	34,525	58,346	27,591
1978	579,312	453,647	11,635	114,030	34,426	54,282	25,322
1977	560,361	438,385	10,889	111,087	33,291	53,183	24,613
1976	531,162	415,504	9,947	105,711	30,602	51,707	23,402
1975	508,414	399,036	9,136	100,242	28,787	50,133	21,322
1974	476,168	376,122	7,474	92,572	27,324	45,518	19,730
1973	439,875	346,476	7,288	86,111	24,956	44,520	16,635
1972	398,753	314,353	6,704	77,696	23,049	40,408	14,239
1971	369,080	288,301	5,470	75,309	21,992	39,656	13,661
1970	341,090	262,675	5,162	73,253	20,941	38,718	13,594
1969	313,349	240,078	4,318	68,953	20,035	36,130	12,788
1968	291,058	220,766	3,434	66,858	19,429	34,956	12,473
1967	269,252	203,580	3,019	62,653	18,049	33,640	10,964
1966	247,843	185,671	2,758	59,414	16,548	32,608	10,258
HYDRO (Capacity of Generators Driven by Water Wheels and Turbines)							
1986	**85,165**	**28,949**	**116**	**56,100**	**5,952**	**37,636**	**12,512**
1985	83,015	27,571	104	55,340	5,159	37,631	12,550
1984	80,590	26,127	81	54,382	4,850	37,139	12,393
1983	78,968	24,977	81	53,910	4,781	36,803	12,326
1982	78,128	24,584	81	53,464	4,729	36,378	12,357
1981	77,145	24,319	67	52,759	4,686	35,891	12,182
1980	76,378	24,227	67	52,084	4,692	35,212	12,180
1979	75,351	23,916	67	51,368	4,693	34,495	12,180
1978	71,014	23,847	67	47,100	4,694	30,431	11,975
1977	68,762	23,158	67	45,537	4,431	29,332	11,774
1976	67,757	23,134	67	44,556	4,010	29,031	11,515
1975	65,949	23,115	67	42,767	3,760	27,480	11,527
1974	63,560	22,737	54	40,769	3,814	25,447	11,508
1973	61,782	21,770	56	39,956	3,334	25,582	11,040
1972	56,386	19,122	54	37,210	3,330	24,336	9,544
1971	55,912	19,076	54	36,782	3,260	24,056	9,466
1970	55,056	18,850	56	36,150	3,195	23,499	9,456
1969	52,753	18,444	56	34,253	3,195	22,054	9,004
1968	51,168	18,337	57	32,774	3,177	20,905	8,692
1967	48,112	18,134	57	29,921	2,623	19,589	7,709
1966	44,977	16,381	57	28,539	2,005	19,531	7,003
CONVENTIONAL STEAM (Capacity of Generators Driven by Steam Engines and Turbines)							
1986	**524,136**	**432,601**	**25,963**	**65,571**	**28,495**	**20,326**	**16,750**
1985	520,299	433,103	24,098	63,098	27,764	20,177	15,156
1984	516,537	429,047	24,278	63,212	27,788	20,244	15,181
1983	507,136	422,944	21,767	62,424	27,737	20,244	14,444
1982	503,804	420,863	21,011	61,930	27,026	20,246	14,658
1981	491,287	413,571	17,939	59,778	26,199	20,392	13,187
1980	475,276	403,031	14,954	57,291	25,697	20,393	11,201
1979	462,999	392,349	13,375	57,275	25,599	20,378	11,298
1978	449,231	383,024	11,073	55,134	25,511	20,378	9,245
1977	436,426	371,976	10,429	54,021	24,590	20,378	9,053
1976	415,181	355,263	9,061	50,857	22,396	20,355	8,106
1975	397,649	340,907	8,264	48,478	20,843	20,332	7,303
1974	375,940	323,490	7,017	45,433	20,395	16,899	6,139
1973	352,072	303,536	6,836	41,700	18,511	18,917	4,272
1972	322,201	279,129	6,254	36,818	16,895	16,052	3,871
1971	299,996	260,016	5,018	34,962	16,026	15,576	3,360
1970	275,191	236,792	4,761	33,638	15,141	15,194	3,303
1969	252,411	217,196	3,925	31,290	14,291	14,051	2,948
1968	233,095	199,285	3,031	30,779	13,807	14,026	2,946
1967	214,435	182,340	2,608	29,487	13,046	14,026	2,415
1966	197,415	167,370	2,348	27,697	12,230	13,052	2,415

See page 9 for footnotes.

TABLE 2 (continued)

INSTALLED GENERATING CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31st	Total Electric Utility Industry†	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Capacity of Generators Driven by Nuclear Reactors)							
1986	**92,417**	**80,213**	**50**	**12,154**	**963**	**5,897**	**5,294**
1985	80,397	68,238	50	12,109	963	5,897	5,249
1984	70,484	58,380	50	12,054	963	5,897	5,194
1983	67,073	56,069	50	10,954	963	5,897	4,094
1982	63,042	52,038	50	10,954	963	5,897	4,094
1981	60,776	50,992	50	9,734	963	4,677	4,094
1980	56,488	47,960	50	8,478	963	3,456	4,059
1979	54,593	46,065	50	8,478	963	3,456	4,059
1978	53,527	44,984	65	8,478	963	3,456	4,059
1977	49,880	41,654	55	8,171	963	3,456	3,752
1976	42,918	35,419	480	7,019	963	2,304	3,752
1975	39,754	33,539	480	5,735	963	2,304	2,468
1974	31,662	28,397	55	3,210	—	1,152	2,058
1973	21,118	19,766	53	1,299	—	—	1,299
1972	15,302	14,449	53	800	—	—	800
1971	8,688	7,833	55	800	—	—	800
1970	6,493	5,693	—	800	—	—	800
1969	3,980	3,180	—	800	—	—	800
1968	2,817	2,017	—	800	—	—	800
1967	2,887	2,087	**	800**	**	—	800
1966	1,942	1,142**	**	800**	**	—	800
INTERNAL COMBUSTION (Capacity of Generators Driven by Internal Combustion Engines)							
1986	**5,944**	**2,420**	**301**	**3,224**	**3,171**	**—**	**52**
1985	5,001	1,477	322	3,202	3,130	*	72
1984	4,841	1,306	330	3,205	3,115	17	73
1983	4,996	1,494	304	3,198	3,117	22	58
1982	5,131	1,627	321	3,182	3,101	22	60
1981	5,600	1,885	351	3,364	3,278	22	65
1980	5,553	1,865	351	3,337	3,246	22	69
1979	5,500	1,814	345	3,341	3,270	17	54
1978	5,540	1,792	430	3,318	3,258	17	43
1977	5,293	1,597	338	3,358	3,307	17	34
1976	5,306	1,688	339	3,279	3,233	17	29
1975	5,062	1,475	325	3,262	3,221	17	24
1974	5,006	1,498	348	3,160	3,115	20	25
1973	4,903	1,404	343	3,156	3,111	21	24
1972	4,864	1,653	343	2,868	2,824	20	24
1971	4,484	1,376	343	2,765	2,706	24	35
1970	4,350	1,340	345	2,665	2,605	25	35
1969	4,205	1,258	337	2,610	2,549	25	36
1968	3,978	1,127	346	2,505	2,445	25	35
1967	3,818	1,019	354	2,445	2,380	25	40
1966	3,509	778	353	2,378	2,313	25	40

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983 wind turbine capacity included in total; Total Electric Utility Industry (1983)—9.3 kW in thousands; Investor-Owned Utilities—2.8 kW in thousands; Federal—6.5 kW in thousands. Total Electric Utility Industry (1984)—9.6 kW in thousands; Investor-Owned Utilities—2.9 kW in thousands; Municipal Utilities—0.1 kW in thousands; Federal—6.6 kW in thousands. Total Electric Utility Industry (1985)—7.4 kW in thousands; Investor-Owned Utilities—3.2 kW in thousands; Municipal Utilities—0.1 kW in thousands; Federal—4.1 kW in thousands. Total Electric Utility Industry (1986)—7.5 kW in thousands; Investor-Owned Utilities—3.3 kW in thousands; Municipal Utilities—0.1 kW in thousands; Federal—4.1 kW in thousands. Beginning 1984 solar capacity included in total; Total Electric Utility Industry (1984)—1.0 kW in thousands; Municipal Utilities—1.0 kW in thousands. Total Electric Utility Industry (1985)—13.5 kW in thousands; Investor-Owned Utilities—12.5 kW in thousands; Municipal Utilities—1.0 kW in thousands. Total Electric Utility Industry (1986)—14.5 kW in thousands; Investor-Owned Utilities—12.5 kW in thousands; Municipal Utilities—2.0 kW in thousands.

** Less than five hundred kilowatts.*

*** Generator capacity of the following plants is included in Conventional Steam:*
Piqua—Piqua Municipal Power Plant, Ohio
Elk River—Rural Cooperative Power Assoc., Minnesota
Sheldon—Consumer s Public Power District, Nebraska
Parr—South Carolina Electric & Gas Co., South Carolina

Sources: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report *(EIA-759),* Annual Electric Generator Report *(EIA-860), and* Annual Electric Utility Report *(EIA-861).*

TABLE 3

INSTALLED GENERATING CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st, 1985 and 1986—KILOWATTS IN THOUSANDS (NAMEPLATE)

	Total Electric Utility Industry†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1986	1985	1986	1985	1986	1985	1986	1985	1986	1985
Total United States	**707,684**	**688,733**	**85,165**	**83,015**	**524,136**	**520,299**	**92,417**	**80,397**	**5,944**	**5,001**
Maine	2,391	2,383	379	373	1,104	1,104	864	864	44	42
New Hampshire	1,384	1,536	241	389	1,143	1,147	–	–	–	–
Vermont	1,138	1,015	368	207	186	223	563	563	20	21
Massachusetts	9,992	10,003	1,656	1,656	7,267	7,338	863	863	206	151
Rhode Island	271	270	2	2	243	243	–	–	26	26
Connecticut	7,377	6,066	133	132	3,493	3,741	3,425	2,172	326	20
New England	**22,552**	**21,279**	**2,777**	**2,759**	**13,437**	**13,797**	**5,715**	**4,462**	**623**	**260**
New York	32,305	32,532	5,038	4,997	23,091	23,355	4,068	4,068	107	112
New Jersey	14,554	13,379	397	387	10,089	10,102	4,060	2,890	8	*
Pennsylvania	34,782	34,521	1,917	1,761	25,290	26,286	7,501	6,402	74	72
Middle Atlantic	**81,640**	**80,432**	**7,352**	**7,145**	**58,471**	**59,743**	**15,629**	**13,360**	**189**	**184**
Ohio	28,526	27,224	119	50	26,079	26,111	2,215	962	113	101
Indiana	21,535	20,137	94	110	21,193	19,786	–	–	242	241
Illinois	32,524	32,814	14	27	22,794	23,447	9,075	9,075	642	266
Michigan	24,143	23,562	2,329	2,327	17,180	17,695	4,272	3,172	363	368
Wisconsin	11,585	11,679	409	404	9,445	9,547	1,633	1,633	99	95
East North Central	**118,313**	**115,416**	**2,964**	**2,917**	**96,696**	**96,587**	**17,195**	**14,841**	**1,458**	**1,071**
Minnesota	8,495	8,533	140	141	6,322	6,339	1,755	1,755	278	298
Iowa	8,575	8,572	130	130	7,461	7,463	597	597	387	382
Missouri	16,594	16,501	1,064	1,065	13,974	13,868	1,236	1,236	320	332
North Dakota	4,657	4,210	490	430	4,141	3,753	–	–	25	27
South Dakota	2,581	2,308	1,627	1,383	893	862	–	–	60	63
Nebraska	5,948	6,042	182	284	4,173	4,151	1,338	1,338	256	269
Kansas	10,468	10,621	2	2	8,668	8,853	1,238	1,238	560	538
West North Central	**57,318**	**56,787**	**3,635**	**3,435**	**45,632**	**45,289**	**6,163**	**6,164**	**1,886**	**1,899**
Delaware	1,900	2,032	–	–	1,892	2,022	–	–	8	11
Maryland	10,446	10,396	531	494	7,779	8,010	1,829	1,829	307	64
District of Columbia	868	868	–	–	868	868	–	–	–	–
Virginia	13,598	12,627	2,977	2,005	6,944	6,943	3,655	3,655	23	24
West Virginia	15,152	15,079	175	101	14,977	14,979	–	–	–	–
North Carolina	19,834	19,731	1,948	1,846	13,709	13,708	4,174	4,174	4	2
South Carolina	16,325	15,072	2,348	2,348	7,177	7,129	6,799	5,594	1	1
Georgia	19,634	18,741	2,429	2,364	15,501	14,672	1,700	1,700	5	5
Florida	34,896	34,164	42	39	30,447	29,719	4,110	4,110	297	295
South Atlantic	**132,655**	**128,711**	**10,451**	**9,197**	**99,293**	**98,050**	**22,267**	**21,062**	**644**	**402**
Kentucky	16,776	16,283	746	817	16,016	15,452	–	–	13	14
Tennessee	18,266	18,275	3,701	3,780	12,124	12,054	2,441	2,441	–	–
Alabama	20,056	19,980	2,860	2,854	11,963	11,894	5,233	5,233	–	–
Mississippi	7,097	7,494	–	–	5,789	6,122	1,308	1,373	–	–
East South Central	**62,195**	**62,033**	**7,307**	**7,451**	**45,892**	**45,522**	**8,982**	**9,046**	**13**	**14**
Arkansas	9,275	9,594	1,086	1,086	6,308	6,624	1,845	1,845	36	38
Louisiana	18,318	16,663	–	–	15,975	15,327	2,236	1,200	107	136
Oklahoma	13,563	13,067	968	968	12,464	11,968	–	–	131	131
Texas	60,224	59,458	597	581	59,457	58,703	–	–	170	174
West South Central	**101,381**	**98,782**	**2,652**	**2,635**	**94,203**	**92,622**	**4,081**	**3,045**	**445**	**480**
Montana	4,903	4,037	2,220	2,204	2,683	1,828	–	–	–	5
Idaho	2,041	2,025	1,983	1,968	50	50	–	–	8	7
Wyoming	5,854	5,849	242	242	5,590	5,590	–	–	18	14
Colorado	7,265	7,596	999	992	5,855	6,189	336	342	74	74
New Mexico	5,542	5,623	25	24	5,491	5,572	–	–	26	26
Arizona	13,680	11,576	1,763	2,369	9,108	9,203	2,806	–	3	4
Utah	4,278	3,029	210	210	4,005	2,778	–	–	63	41
Nevada	5,546	4,807	1,444	682	4,039	4,062	–	–	63	64
Mountain	**49,108**	**44,542**	**8,886**	**8,690**	**36,821**	**35,271**	**3,142**	**342**	**255**	**234**
Washington	23,739	23,505	19,404	19,199	2,271	2,287	2,060	2,015	4	4
Oregon	10,578	10,576	8,097	8,094	1,260	1,260	1,216	1,216	6	6
California	45,045	43,713	11,429	11,284	27,584	27,524	5,968	4,843	47	46
Pacific	**79,363**	**77,795**	**38,930**	**38,578**	**31,116**	**31,071**	**9,244**	**8,074**	**56**	**55**
Alaska	1,674	1,406	208	204	1,214	917	–	–	251	285
Hawaii	1,485	1,552	3	3	1,359	1,430	–	–	123	118
Alaska & Hawaii	**3,159**	**2,957**	**212**	**207**	**2,573**	**2,347**	**–**	**–**	**374**	**404**

Note: Total may not equal sum of components due to independent rounding.

† Total includes wind turbine capacity (1985—7.4 kW in thousands; 1986—7.5 kW in thousands) and solar energy capacity (1985—13.5 kW in thousands; 1986—14.5 kW in thousands).

** Less than five hundred kilowatts.*

Sources: U.S. Department of Energy, Energy Information Administration. Monthly Power Plant Report *(EIA-759),* Annual Electric Generator Report *(EIA-860),* and Annual Electric Utility Report *(EIA-861).*

TABLE 4

INSTALLED GENERATING CAPACITY INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st, 1985 and 1986—KILOWATTS IN THOUSANDS (NAME PLATE)

	Total Investor-Owned Utilities†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1986	1985	1986	1985	1986	1985	1986	1985	1986	1985
Total United States	**544,199**	**530,405**	**28,949**	**27,571**	**432,601**	**433,103**	**80,213**	**68,238**	**2,420**	**1,477**
Maine	2,387	2,379	378	372	1,104	1,104	864	864	41	39
New Hampshire	1,384	1,536	241	389	1,143	1,147	—	—	—	—
Vermont	1,036	877	347	188	108	108	563	563	18	17
Massachusetts	9,097	9,098	1,645	1,645	6,451	6,507	863	863	138	82
Rhode Island	269	269	—	—	243	243	—	—	26	26
Connecticut	7,320	6,009	130	129	3,454	3,702	3,425	2,172	311	6
New England	**21,493**	**20,166**	**2,741**	**2,723**	**12,503**	**12,811**	**5,715**	**4,462**	**534**	**170**
New York	25,242	25,494	902	881	22,133	22,400	2,172	2,172	36	41
New Jersey	14,456	13,269	397	387	9,991	9,992	4,060	2,890	8	—
Pennsylvania	34,782	34,521	1,917	1,761	25,290	26,286	7,501	6,402	74	72
Middle Atlantic	**74,480**	**73,284**	**3,215**	**3,029**	**57,414**	**58,678**	**13,733**	**11,464**	**118**	**112**
Ohio	27,595	26,378	48	48	25,259	25,310	2,215	962	74	59
Indiana	20,071	18,679	94	109	19,756	18,349	—	—	221	221
Illinois	31,362	31,603	14	14	21,871	22,487	9,075	9,075	403	28
Michigan	22,555	21,970	2,288	2,288	15,839	16,349	4,272	3,172	155	160
Wisconsin	10,261	10,367	374	369	8,281	8,392	1,583	1,583	23	23
East North Central	**111,843**	**108,997**	**2,817**	**2,828**	**91,007**	**90,887**	**17,144**	**14,791**	**875**	**490**
Minnesota	7,518	7,526	134	137	5,625	5,628	1,755	1,755	4	6
Iowa	7,387	7,389	127	127	6,637	6,639	597	597	26	26
Missouri	11,985	11,941	596	596	10,140	10,097	1,236	1,236	12	12
North Dakota	607	615	—	—	606	612	—	—	*	3
South Dakota	811	797	*	*	758	742	—	—	52	55
Nebraska	—	—	—	—	—	—	—	—	—	—
Kansas	8,049	8,321	2	2	6,803	7,076	1,238	1,238	6	6
West North Central	**36,355**	**36,589**	**859**	**861**	**30,569**	**30,794**	**4,826**	**4,826**	**101**	**108**
Delaware	1,741	1,851	—	—	1,741	1,850	—	—	*	1
Maryland	10,358	10,320	531	494	7,743	7,986	1,829	1,829	255	11
District of Columbia	868	868	—	—	868	868	—	—	—	—
Virginia	13,357	12,382	2,745	1,770	6,942	6,942	3,655	3,655	16	15
West Virginia	15,152	15,079	175	101	14,977	14,979	—	—	—	—
North Carolina	19,176	19,172	1,481	1,477	13,520	13,520	4,174	4,174	—	—
South Carolina	13,168	11,969	1,845	1,845	4,523	4,529	6,799	5,594	—	*
Georgia	18,074	17,241	886	881	15,484	14,655	1,700	1,700	5	5
Florida	27,460	27,420	*	*	23,317	23,278	4,110	4,110	33	31
South Atlantic	**119,353**	**116,301**	**7,664**	**6,568**	**89,114**	**88,607**	**22,267**	**21,062**	**307**	**64**
Kentucky	7,980	7,980	110	111	7,869	7,869	—	—	—	—
Tennessee	172	172	172	172	—	—	—	—	—	—
Alabama	10,873	10,873	1,583	1,583	7,514	7,514	1,777	1,777	—	—
Mississippi	6,317	6,721	—	—	5,009	5,348	1,308	1,373	—	—
East South Central	**25,341**	**25,745**	**1,865**	**1,865**	**20,392**	**20,731**	**3,085**	**3,149**	**—**	**—**
Arkansas	7,909	8,236	65	65	5,993	6,312	1,845	1,845	6	14
Louisiana	15,423	13,879	—	—	13,129	12,616	2,236	1,200	59	63
Oklahoma	10,312	10,318	—	—	10,285	10,285	—	—	27	34
Texas	49,577	49,032	90	10	49,449	48,981	—	—	38	41
West South Central	**83,222**	**81,466**	**155**	**75**	**78,856**	**78,194**	**4,081**	**3,045**	**130**	**152**
Montana	3,594	2,741	911	909	2,683	1,828	—	—	—	5
Idaho	1,374	1,367	1,319	1,312	50	50	—	—	6	5
Wyoming	3,900	3,893	3	*	3,880	3,880	—	—	18	13
Colorado	3,551	3,869	342	340	2,853	3,167	336	342	20	20
New Mexico	5,124	5,199	—	—	5,102	5,177	—	—	22	22
Arizona	6,735	4,025	7	7	3,919	4,014	2,806	—	3	4
Utah	2,827	2,836	55	67	2,771	2,764	—	—	—	5
Nevada	4,111	4,135	9	9	4,039	4,062	—	—	63	64
Mountain	**31,216**	**28,064**	**2,646**	**2,644**	**25,297**	**24,940**	**3,142**	**342**	**131**	**138**
Washington	3,208	3,224	964	965	2,241	2,257	—	—	3	3
Oregon	3,968	3,968	1,486	1,486	1,260	1,260	1,216	1,216	6	6
California	32,123	30,947	4,517	4,507	22,554	22,514	5,005	3,880	32	30
Pacific	**39,299**	**38,139**	**6,968**	**6,958**	**26,055**	**26,030**	**6,221**	**5,096**	**40**	**39**
Alaska	113	102	16	15	35	—	—	—	62	87
Hawaii	1,485	1,552	3	3	1,359	1,430	—	—	123	118
Alaska & Hawaii	**1,598**	**1,654**	**20**	**18**	**1,394**	**1,430**	**—**	**—**	**184**	**205**

Note: Total may not equal sum of components due to independent rounding.
†Total includes wind turbine capacity (1985—3.2 kW in thousands; 1986—3.3 kW in thousands) and solar energy capacity (1985—12.5 kw in thousands; 1986—12.5 kW in thousands).
**Less than five hundred kilowatts.*
Sources: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759),* Annual Electric Generator Report *(EIA-860), and* Annual Electric Utility Report *(EIA-861).*

TABLE 5

CHANGES IN INSTALLED GENERATING CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY*

BY TYPE OF PRIME MOVER DRIVING THE GENERATOR

1967-1986 – KILOWATTS IN THOUSANDS (NAME PLATE)

At December 31st	New Additions	Retirements	Adjustments** Plus	Adjustments** Minus	Net Additions
1986‡					
Hydro					2,150
Steam					15,857
Internal Combustion					943
Total					18,951
1985‡					
Hydro					2,425
Steam					13,675
Internal Combustion					160
Total					16,271
1984‡					
Hydro					1,622
Steam					12,812
Internal Combustion					(155)
Total					14,280
1983‡					
Hydro					840
Steam					7,363
Internal Combustion					(135)
Total					8,077
1982‡					
Hydro					983
Steam					14,783
Internal Combustion					(469)
Total					15,297
1981‡					
Hydro					767
Steam					20,299
Internal Combustion					47
Total					21,113
1980‡					
Hydro					1,027
Steam					14,172
Internal Combustion					53
Total					15,252
1979‡					
Hydro					4,337
Steam					14,834
Internal Combustion					(40)
Total					19,131
1978‡					
Hydro					2,252
Steam					16,452
Internal Combustion					247
Total					18,951
1977‡					
Hydro					1,005
Steam					28,207
Internal Combustion					(13)
Total					29,199
1976‡					
Hydro					1,808
Steam					20,696
Internal Combustion					244
Total					22,748
1975‡					
Hydro					2,389
Steam					29,801
Internal Combustion					56
Total					32,246
1974‡					
Hydro					1,778
Steam					34,412
Internal Combustion					103
Total					36,293
1973‡					
Hydro					5,396
Steam					35,687
Internal Combustion					39
Total					41,122
1972‡					
Hydro					474
Steam					28,819
Internal Combustion					380
Total					29,673
1971‡					
Hydro					856
Steam					27,000
Internal Combustion					134
Total					27,990
1970					
Hydro	2,244	48	109	3	2,302
Steam	25,506	905	882	190	25,293
Internal Combustion	242	40	42	98	146
Total	27,992	993	1,033	291	27,741
1969					
Hydro	1,638	115	64	2	1,585
Steam	19,837	856	1,605	107	20,479
Internal Combustion	219	39	78	31	227
Total	21,694	1,010	1,747	140	22,291
1968					
Hydro	3,015	80	145	24	3,056
Steam	18,830	697	593	136	18,590
Internal Combustion	210	57	39	32	160
Total	22,055	834	777	192	21,806
1967					
Hydro	3,320	215	30	–	3,135
Steam	17,992	459	578	146	17,965
Internal Combustion	364	56	24	23	309
Total	21,676	730	632	169	21,409

Note: Total may not equal sum of components due to independent rounding.

*Beginning 1983 wind turbine capacity included in total – 9.3 kW in thousands; 1984 total – 9.6 kW in thousands; 1985 total – 7.4 kW in thousands; 1986 total – 7.5 kW in thousands. Beginning 1984 solar energy capacity included in total – 1.0 kW in thousands; 1985 total – 13.5 kW in thousands; 1986 total – 14.5 kW in thousands.

**Adjustments are result of reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Total Electric Utility Industry.

‡Complete data not available at time of printing.

( ) Denotes negative figure.

Sources: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759), Annual Electric Generator Report (EIA-860), and Annual Electric Utility Report (EIA-861).

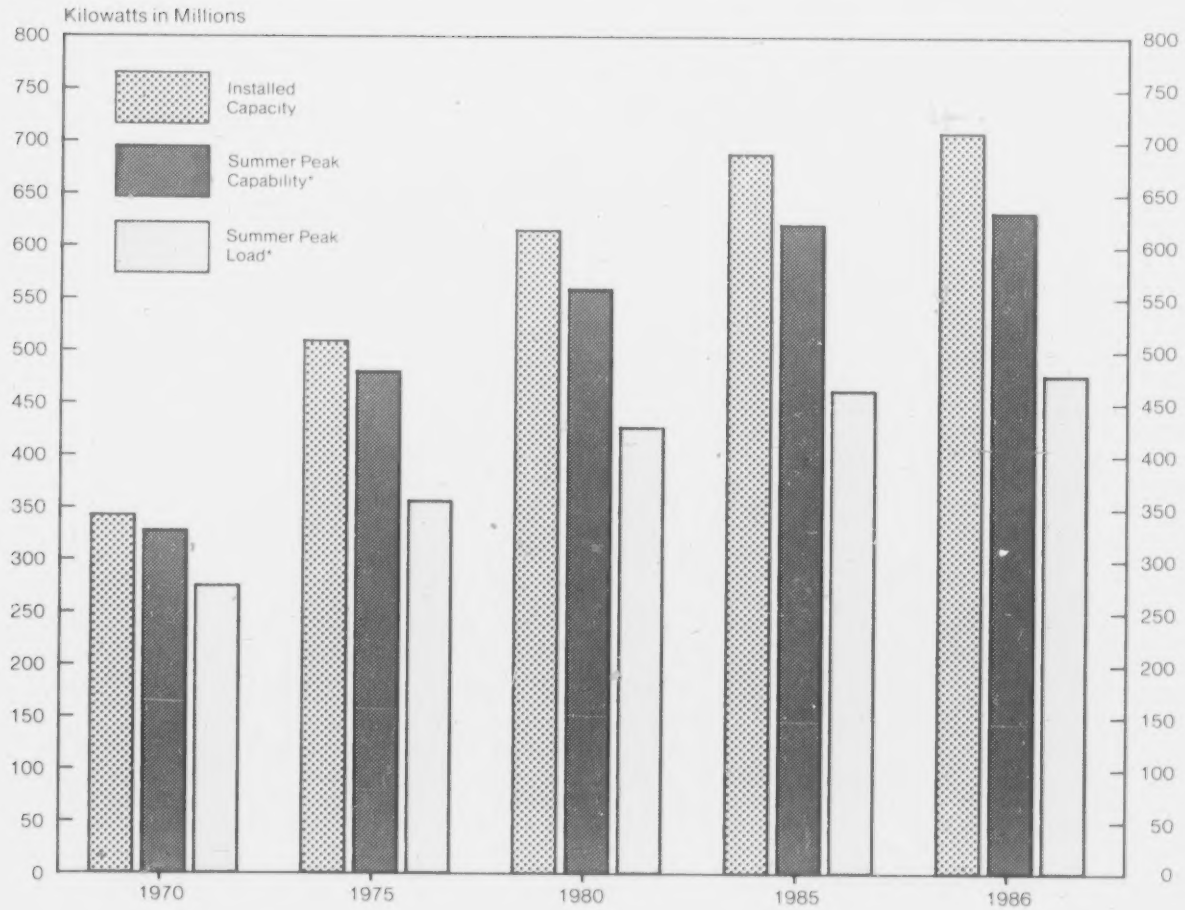
ELECTRIC POWER SUPPLY

SECTION II

CHART II-A

CAPACITY, CAPABILITY & PEAK LOAD

TOTAL ELECTRIC UTILITY INDUSTRY



* *Excludes Alaska and Hawaii.*

Based on Table 1, page 7 and Table 7, page 14.

Sources: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759),* Annual Electric Generator Report *(EIA-860), and* Annual Electric Utility Report *(EIA-861);* *Edison Electric Institute,* Electric Power Annual Report.

TABLE 7

CAPABILITY*—PEAK LOAD—KILOWATTHOUR REQUIREMENTS TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)

Year	Capability at Time of Summer Peak Load (MW)	Non-Coincident Summer Peak Load (MW)	Capability at Time of Winter Peak Load (MW)†	Non-Coincident Winter Peak Load (MW)†	Capacity Margin Based on Non-Coincident Peak Load (%)†‡	Annual Kilowatthour Requirements (in Millions)	Annual Load Factor Based on Peak Load (%)
1986	**633,291**	**476,320**	**646,721**	**422,857**	**24.8**	**2,532,104**	**60.7**
1985	621,597	460,503	636,475	423,660	25.9	2,499,226	62.0
1984	604,240	451,150	622,125	436,374	25.3	2,445,603	59.7
1983	596,449	447,526	612,453	410,779	25.0	2,341,633	59.5
1982	586,142	415,618	598,066	373,985	29.1	2,258,744	62.0
1981	572,219	429,349	586,569	397,800	25.0	2,311,026	61.0
1980	558,237	427,058	572,195	384,567	23.5	2,292,718	61.0
1979	544,506	398,424	554,525	368,876	26.8	2,246,927	64.4
1978	545,700	408,050	561,550	383,100	25.2	2,218,700	62.1
1977	516,000	396,350	537,600	360,200	23.2	2,132,300	61.4
1976	498,750	370,900	511,000	349,850	25.6	2,039,500	62.6
1975	479,300	356,800	492,450	331,100	25.6	1,919,500	61.4
1974	444,400	349,250	467,400	302,500	21.4	1,871,700	61.2
1973	415,500	343,900	433,150	295,150	17.2	1,868,800	62.0
1972	381,700	319,150	394,050	290,950	16.4	1,752,200	62.5
1971	353,250	292,100	366,700	261,650	17.3	1,617,100	63.2
1970	326,900	274,650	339,050	248,550	16.0	1,536,400	63.9
1969	300,300	257,650	311,450	236,600	14.2	1,446,000	64.1
1968	278,950	238,000	288,750	226,700	14.7	1,327,200	63.5
1967	257,950	213,450	267,750	205,850	17.3	1,221,500	65.3
1966	240,700	203,350	247,650	193,700	15.5	1,152,900	64.7

**Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions. It must, therefore, provide the necessary allowance for maintenance, emergency outages, and system operating requirements. This rating is more indicative of the actual generating ability of existing power stations than the familiar name-plate rating as used in other tables of this publication.*

†Beginning in 1973 capability and peak load data shown under Winter represent turn-of-year data for the winter season that follows the summer peak load data for that calendar year. Previously, data in this series was always for the month of December.

‡Calculated from the maximum non-coincident peak load, summer or winter, and the capability at the time of this peak load. Percent Capacity Margin is the difference between capability and peak load divided by capability multiplied by 100.

Sources: North American Electric Reliability Council and Edison Electric Institute. All data series shown have a discontinuity between 1978 and 1979 because of the switch to NERC data. For calculation of percent changes between 1978 and 1979, see old series values for 1979 in Table 6 of 1979 edition.

TABLE 8

ELECTRICITY MADE AVAILABLE IN THE UNITED STATES

KILOWATTHOURS IN MILLIONS

Year	Generation					Net Imports of Electric Energy	Total Available in U.S.	Estimated Population† (Thousands) (July 1)	kWh Per Person
	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States				
1986	**1,928,199**	**559,111**	**2,487,310**	**N/A**	**2,487,310****	**35,897**	**2,523,207****	**241,078**	**10,466****
1985r	1,918,032	551,809	2,469,841	94,925	2,564,766	40,936	2,605,702	238,741	10,914
1984r	1,848,916	567,388	2,416,304	71,520e	2,487,824	39,661	2,527,485	236,477	10,688
1983r	1,764,080	546,205	2,310,285	57,678e	2,367,963	35,330	2,403,293	234,284	10,258
1982	1,711,576	529,635	2,241,211	61,076e	2,302,287	30,744	2,333,031	231,996	10,056
1981	1,785,500	509,312	2,294,812	64,446e	2,359,258	33,584	2,392,842	229,637	10,420
1980	1,782,933	503,481	2,286,414	67,945e	2,354,359	20,925	2,375,284	227,255	10,452
1979	1,756,170	491,189	2,247,359	71,375	2,318,734	20,334	2,339,068	224,567	10,416
1978	1,721,163	485,150	2,206,313	78,967	2,285,280	19,328	2,304,608	222,095	10,377
1977	1,684,084	440,082	2,124,166	87,575	2,211,741	17,415	2,229,156	219,760	10,144
1976	1,582,029	455,645	2,037,674	87,084	2,124,758	8,611	2,133,369	217,563	9,806
1975	1,486,844	430,775	1,917,619	85,362	2,002,981	6,185	2,009,166	215,465	9,325
1974	1,442,114	424,322	1,866,436	101,572	1,968,008	12,694	1,980,702	213,342	9,284
1973	1,448,860	407,356	1,856,216	102,529	1,958,745	14,278	1,973,023	211,357	9,335
1972	1,358,929	390,708	1,749,637	104,508	1,854,145	7,744	1,861,889	209,284	8,896
1971	1,248,596	363,993	1,612,589	103,239	1,715,828	3,530	1,719,358	206,827	8,313
1970	1,183,190	348,419	1,531,609	108,162	1,639,771	1,960	1,641,731	203,984	8,048
1969	1,102,162	340,020	1,442,182	110,575	1,552,757	1,072	1,553,829	201,385	7,716
1968	1,019,313	310,130	1,329,443	106,586	1,436,029	(631)	1,435,398	199,399	7,199
1967	928,439	285,926	1,214,365	102,935	1,317,300	(299)	1,317,001	197,457	6,670
1966	880,837	263,513	1,144,350	105,094	1,249,444	1,092	1,250,536	195,576	6,394

Note: Total may not equal sum of components due to independent rounding.

**Includes non-electric utility industry facilities.*

***Excludes Other Sources.*

†U.S. Department of Commerce. Bureau of Census estimates; excludes Armed Forces overseas.

N/A Not available.

e Estimated. r Revised. ( ) Denotes negative figure.

Sources: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report *(EIA-759), Economic Regulatory Administration.* Electricity Transactions Across International Borders, *and Edison Electric Institute.*

TABLE 9

TOTAL UNITED STATES KILOWATTHOUR SOURCE AND DISPOSITION

1966-1986—KILOWATTHOURS IN MILLIONS

	1986p	1985r	1984r	1983	1982	1981	1980
SOURCE							
Generation							
Total Electric Utility Industry	2,487,310	2,469,841	2,416,304	2,310,285	2,241,211	2,294,812	2,286,414
Industrials*	N/A	66,625	52,125e	42,029e	49,072e	56,045e	60369e
Industrials*—Received by Electric Utility Industry	41,678	28,300	19,395	15,649r	12,004	8,401	7,576
Total Generation	**2,528,988**	**2,564,766**	**2,487,824**	**2,367,963r**	**2,302,287**	**2,359,258**	**2,354,359**
Imports from Canada & Mexico	40,713	45,901	42,219	38,668	34,284	35,416	25,021
Total Kilowatthours	**2,569,701**	**2,610,667**	**2,530,043**	**2,406,631r**	**2,336,571**	**2,394,674**	**2,379,380**
DISPOSITION							
Total Sales to Ultimate Customers	2,355,311	2,305,882	2,280,585	2,159,787	2,099,741	2,150,674	2,126,094
Exports to Canada & Mexico	4,816	4,965	2,558	3,337	3,540	1,832	4,096
Energy Used by Producer	1,247	1,833	2,849	2,633	2,539	1,462	2,540
Company Use & Free Service	8,534	9,336	10,958	10,650	12,051	10,068	9,053
Lost and Unaccounted For	199,793	222,026	180,968	188,195r	169,628	174,593	177,228
Industrials*	N/A	66,625	52,125e	42,029e	49,072e	56,045e	60,369
Total Kilowatthours	**2,569,701**	**2,610,667**	**2,530,043**	**2,406,631r**	**2,336,571**	**2,394,674**	**2,379,380**

	1979	1978	1977	1976	1975	1974	1973
SOURCE							
Generation							
Total Electric Utility Industry	2,247,359	2,206,313	2,124,166	2,037,674	1,917,619	1,866,436	1,856,216
Industrials*	65,341	72,297	83,543	82,406	79,340	94,955	95,761
Industrials*—Received by Electric Utility Industry	6,034	6,670	4,032	4,678	6,022	6,617	6,768
Total Generation	**2,318,734**	**2,285,280**	**2,211,741**	**2,124,758**	**2,002,981**	**1,968,008**	**1,958,745**
Imports from Canada & Mexico	22,516	21,514	20,159	10,989	11,268	15,420	16,848
Total Kilowatthours	**2,341,250**	**2,306,794**	**2,231,900**	**2,135,747**	**2,014,249**	**1,983,428**	**1,975,593**
DISPOSITION							
Total Sales to Ultimate Customers	2,084,400	2,017,818	1,950,791	1,849,625	1,733,024	1,700,769	1,703,203
Exports to Canada & Mexico	2,182	2,186	2,744	2,378	5,083	2,726	2,570
Energy Used by Producer	3,382	2,372	2,462	2,559	3,068	3,059	3,137
Company Use & Free Service	11,086	7,975	7,037	5,717	4,709	4,850	4,912
Lost and Unaccounted For	174,859	204,146	185,323	193,062	189,025	177,069	166,010
Industrials*	65,341	72,297	83,543	82,406	79,340	94,955	95,761
Total Kilowatthours	**2,341,250**	**2,306,794**	**2,231,900**	**2,135,747**	**2,014,249**	**1,983,428**	**1,975,593**

	1972	1971	1970	1969	1968	1967	1966
SOURCE							
Generation							
Total Electric Utility Industry	1,749,637	1,612,589	1,531,609	1,442,182	1,329,443	1,214,365	1,144,350
Industrials*	98,241	96,495	102,440	105,203	103,026	97,856	102,257
Industrials*—Received by Electric Utility Industry	6,267	6,744	5,722	5,372	3,560	5,079	2,837
Total Generation	**1,854,145**	**1,715,828**	**1,639,771**	**1,552,757**	**1,436,029**	**1,317,300**	**1,249,444**
Imports from Canada & Mexico	**10,496**	**7,043**	**6,169**	**4,902**	**3,654**	**4,051**	**4,268**
Total Kilowatthours	**1,864,641**	**1,722,871**	**1,645,940**	**1,557,659**	**1,439,683**	**1,321,351**	**1,253,712**
DISPOSITION							
Total Sales to Ultimate Customers	1,577,714	1,466,441	1,391,359	1,307,178	1,202,321	1,107,023	1,038,982
Exports to Canada & Mexico	2,752	3,514	4,209	3,830	4,285	4,350	3,176
Energy Used by Producer	3,081	2,854	2,301	2,515	2,469	2,559	2,305
Company Use & Free Service	4,412	3,894	3,984	3,626	3,399	2,956	2,755
Lost and Unaccounted For	178,441	149,673	141,647	135,307	124,183	106,607	104,237
Industrials*	98,241	96,495	102,440	105,203	103,026	97,856	102,257
Total Kilowatthours	**1,864,641**	**1,722,871**	**1,645,940**	**1,557,659**	**1,439,683**	**1,321,351**	**1,253,712**

N/A Not available.

**Includes non-electric utility industry facilities.*

p Preliminary. r Revised. e Estimated.

Sources: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759), Economic Regulatory Adminstration,* Electricity Transactions Across International Borders, *and Edison Electric Institute.*

TABLE 10

WORLD POWER DATA

FIFTEEN COUNTRIES WITH GREATEST INSTALLED GENERATING CAPACITY
1985

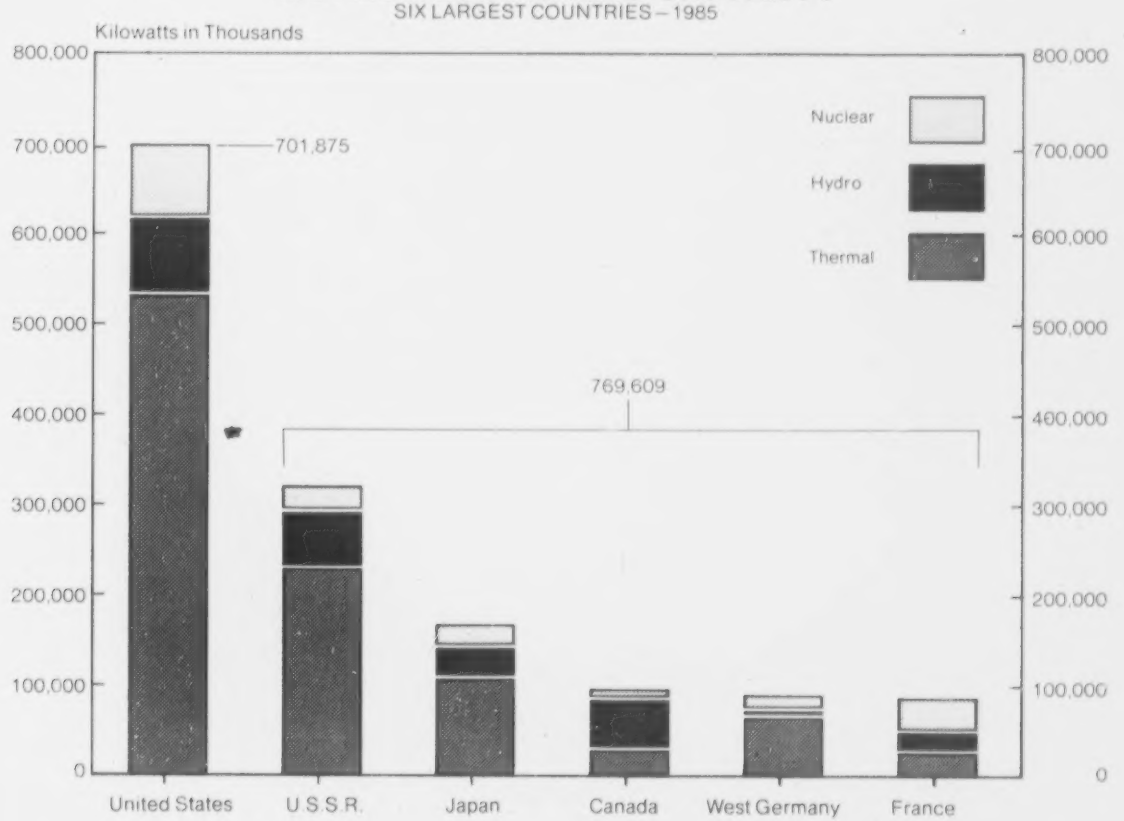
Country	Installed Capacity (Kilowatts in Thousands)				Energy Production† (kWh in Millions)				Population (Thousands)	kWh Per Capita
	Hydro	Nuclear	Thermal	Total	Hydro	Nuclear	Thermal	Total		
United States	84,986	81,566	535,323	701,875	282,499	383,691	1,859,001	2,525,191	238,741‡	10,577
U.S.S.R.	61,257	28,100	229,936	319,293	206,000	170,000	1,168,000	1,544,000	277,504	5,564
Japan	34,337	24,686	110,505	169,528	87,947	159,578	425,887	673,412	120,731	5,578
Canada	57,458	10,889	30,937	99,284	304,302	61,061	95,045	460,408	25,399	18,127
Germany (West)	6,668	16,095	69,941	92,704	15,621	125,902	265,191	406,714	60,950	6,673
France	21,800	37,500	29,500	88,800	61,200	213,100	52,100	326,400	55,069	5,927
China (mainland)	26,500	—	55,700	82,200	92,400	—	318,300	410,700	1,037,588	396
United Kingdom	4,190	7,064	56,353	67,607	4,095	61,094	229,533	294,722	56,423	5,223
Italy	17,166	1,273	36,537	54,976	41,092	7,024	134,121	182,237	57,138	3,189
India	15,115	1,096	34,969	51,180	58,001	4,683	125,795	188,479	767,681	246
Brazil	36,881	657	6,266	43,804	178,256	—	14,689	192,945	135,000	1,429
Spain	13,790	5,815	19,600	39,205	31,408	28,035	66,117	125,560	38,829	3,234
Sweden	15,690	9,455	8,023	33,168	71,166	58,637	6,740	136,543	8,348	16,356
Australia	6,557	—	24,570	31,127	14,428	—	104,541	118,969	15,345	7,753
Poland	1,975	—	27,063	29,038	3,894	—	133,814	137,708	37,160	3,706

† *Data presented on a gross generation basis.*
‡ *U.S. population July 1, 1985; excludes armed forces abroad. Dept. of Commerce, Bureau of Census.*
Sources: Capacity and production: UN 1985 Energy Statistics Yearbook; *population (except as noted):* The World Almanac and Book of Facts— *1987.*

CHART II-B

WORLD GENERATING CAPACITY

SIX LARGEST COUNTRIES – 1985



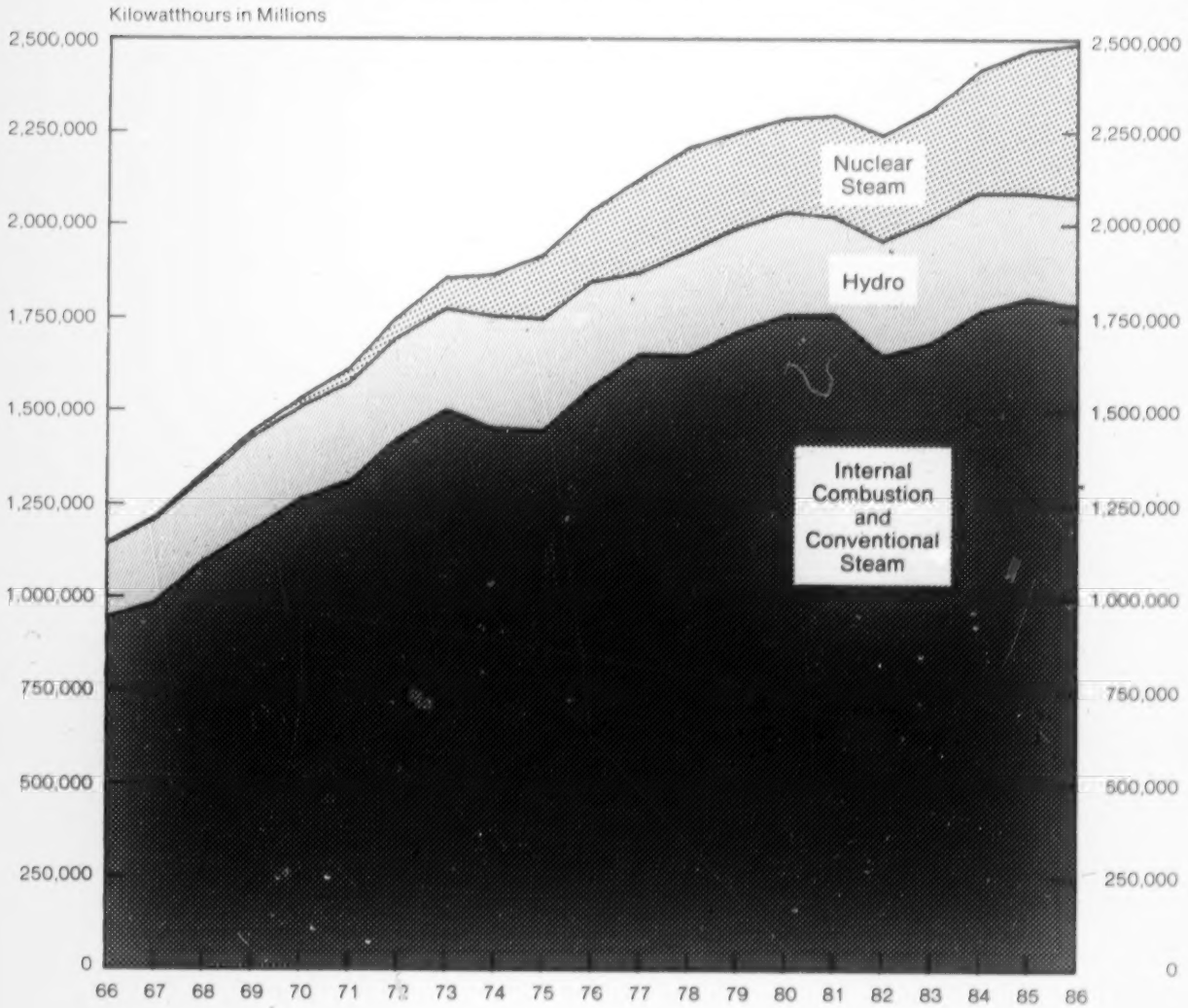
Based on Table 10, as shown above.
Source: UN 1985 Energy Statistics Yearbook.

GENERATION
SECTION III

CHART III-A

GENERATION BY TYPE OF PRIME MOVER

TOTAL ELECTRIC UTILITY INDUSTRY



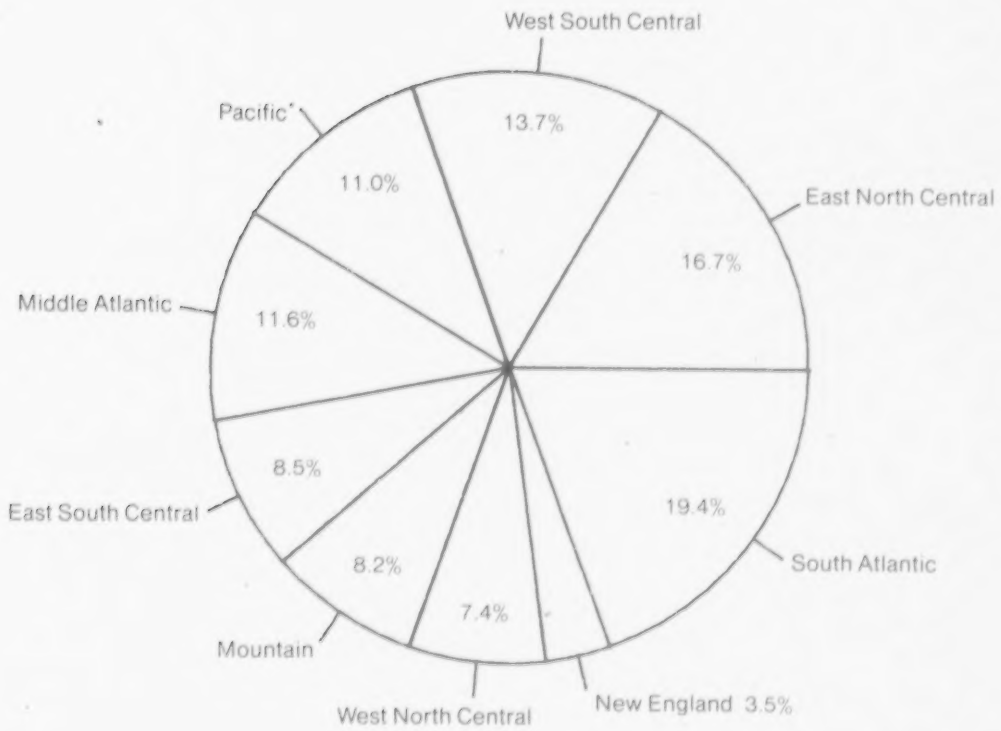
Based on Table 12, page 20.
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759).*

CHART III-B

GENERATION BY CENSUS DIVISIONS

TOTAL ELECTRIC UTILITY INDUSTRY

1986



*Includes Alaska and Hawaii.
Based on Table 15, page 24.
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759).

TABLE 12

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTHOURS IN MILLIONS

Year	Total Electric Utility Industry†	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Generation by All Types of Prime Mover)							
1986	**2,487,310**	**1,926,199**	**113,897**	**445,214**	**78,869**	**224,854**	**141,491**
1985	2,469,841	1,918,032	108,321	443,488	73,864	233,063	136,560
1984	2,416,304	1,848,916	101,970	465,418	74,672	253,928	136,818
1983	2,310,285	1,764,080	84,710	461,495	73,069	258,181	130,245
1982	2,241,211	1,711,576	77,098	452,537	76,569	241,004	134,964
1981	2,294,812	1,785,500	73,314	435,998	80,701	232,222	123,075
1980	2,286,414	1,782,933	63,550	439,931	86,579	235,051	118,301
1979	2,247,359	1,756,170	54,404	436,785	87,265	235,570	113,950
1978	2,206,313	1,721,163	48,717	436,433	89,700	235,257	111,476
1977	2,124,166	1,684,084	44,884	395,198	83,382	213,633	98,183
1976	2,037,674	1,582,029	41,223	414,422	78,176	236,024	100,222
1975	1,917,619	1,486,844	35,328	395,447	81,518	221,226	92,703
1974	1,866,436	1,442,114	33,844	390,478	78,677	219,821	91,980
1973	1,856,216	1,448,860	35,127	372,229	80,872	211,715	79,642
1972	1,749,637	1,358,929	31,714	358,994	78,931	206,668	73,395
1971	1,612,589	1,248,596	27,227	336,766	72,609	194,462	69,695
1970	1,531,609	1,183,190	23,459	324,960	71,394	185,753	67,813
1969	1,442,182	1,102,162	17,513	322,507	69,614	183,245	69,648
1968	1,329,443	1,019,313	14,140	295,990	63,804	170,834	61,352
1967	1,214,365	928,439	12,389	273,537	57,788	162,399	53,350
1966	1,144,350	880,837	11,175	252,338	52,627	153,067	46,644
HYDRO (Generation of Generators Driven by Water Wheels and Turbines)							
1986	**290,844**	**71,356**	**396**	**219,091**	**16,841**	**141,990**	**60,260**
1985	281,149	66,334	410	214,406	14,496	142,435	57,475
1984	321,150	83,639	279	237,232	15,775	162,268	59,190
1983	332,130	88,663	303	243,164	17,266	160,989	64,910
1982	309,213	81,527	294	227,392	17,061	148,027	62,305
1981	260,684	61,680	231	198,773	13,700	128,690	56,383
1980	276,039	70,500	267	205,272	15,603	131,909	57,760
1979	279,790	74,105	244	205,441	13,270	137,212	54,959
1978	280,432	72,381	275	207,776	14,889	136,804	56,083
1977	220,446	55,343	220	164,883	8,572	111,951	44,360
1976	283,734	68,034	221	215,479	14,444	144,218	56,817
1975	300,065	81,524	251	218,290	16,619	142,943	58,728
1974	300,928	81,204	197	219,527	17,218	137,882	64,427
1973	271,634	77,451	229	193,954	13,439	123,148	57,367
1972	272,626	76,820	220	195,586	15,152	126,328	54,106
1971	266,314	76,521	243	189,550	14,765	121,573	53,212
1970	247,456	70,587	214	176,655	14,453	110,695	51,507
1969	250,193	74,833	215	175,145	15,494	105,687	53,964
1968	222,491	67,201	239	155,051	13,043	94,874	47,134
1967	221,518	72,072	223	149,223	10,602	96,228	42,393
1966	194,756	62,827	214	131,715	8,106	86,260	37,349
CONVENTIONAL STEAM (Generation of Generators Driven by Steam Engines and Turbines)							
1986	**1,780,853**	**1,469,751**	**113,219**	**197,883**	**61,198**	**83,092**	**53,593**
1985	1,803,323	1,503,349	107,438	192,536	56,543	77,976	58,017
1984	1,765,608	1,487,840	101,184	176,584	54,008	66,989	55,587
1983	1,682,268	1,426,449	84,015	171,804	51,503	69,237	51,063
1982	1,646,883	1,396,336	76,481	174,066	54,507	65,682	53,878
1981	1,758,660	1,492,062	72,619	193,980	62,421	80,715	50,844
1980	1,755,634	1,499,918	62,803	192,913	63,899	83,715	45,299
1979	1,708,256	1,472,652	53,609	181,995	65,100	77,948	38,947
1978	1,644,756	1,415,266	47,887	181,603	66,212	81,535	33,856
1977	1,648,105	1,422,684	44,193	181,228	65,402	83,202	32,624
1976	1,557,647	1,346,179	38,409	173,059	57,547	87,584	27,928
1975	1,439,374	1,249,623	33,647	156,104	57,958	75,549	22,597
1974	1,445,808	1,261,009	32,887	151,912	56,605	75,640	19,667
1973	1,494,901	1,292,888	34,108	167,905	62,422	88,240	17,243
1972	1,416,218	1,229,998	30,713	155,507	58,814	80,324	16,369
1971	1,301,960	1,135,674	26,245	140,041	53,246	72,866	13,929
1970	1,256,294	1,092,564	22,610	141,120	52,380	75,048	13,692
1969	1,172,481	1,016,361	16,760	139,360	49,800	77,544	12,016
1968	1,089,239	942,927	13,332	132,980	46,744	75,927	10,309
1967	980,336	850,541	11,434	118,361	43,292	66,136	8,933
1966	938,910	813,329	10,104	115,477	40,405	66,769	8,303

See page 21 for footnotes.

TABLE 12 (continued)

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTHOURS IN MILLIONS

Year	Total Electric Utility Industry†	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Generation of Generators Driven by Nuclear Reactors)							
1986	**414,038**	**386,513**	**157**	**27,367**	**(41)**	**(230)**	**27,638**
1985	383,691	347,769	323	35,599	1,885	12,646	21,069
1984	327,634	276,849	319	50,466	3,760	24,665	22,040
1983	293,677	248,379	201	45,097	2,875	27,951	14,271
1982	282,773	233,213	137	49,423	3,349	27,294	18,780
1981	272,674	231,190	241	41,243	2,585	22,810	15,847
1980	251,121	211,831	214	39,076	4,426	19,413	15,237
1979	255,155	208,788	201	46,166	5,729	20,402	20,035
1978	276,403	232,742	174	43,487	5,046	16,911	21,530
1977	250,882	205,257	89	45,536	5,865	18,473	21,198
1976	191,107	167,098	2,157	21,852	2,161	4,214	15,477
1975	172,506	154,985	951	16,570	2,470	2,722	11,378
1974	113,727	99,042	313	14,372	198	6,289	7,885
1973	83,334	77,790	199	5,345	—	314	5,031
1972	54,092	50,933	240	2,919	—	—	2,919
1971	38,106	35,357	196	2,553	—	—	2,553
1970	21,797	19,063	120	2,614	—	—	2,614
1969	13,928	10,261	—	3,667	—	—	3,667
1968	12,528	8,611	15	3,902	—	—	3,902
1967	7,655	5,499	141	2,015	—	—	2,015
1966	5,520	4,400	129	991	2	—	989
INTERNAL COMBUSTION (Generation of Generators Driven by Internal Combustion Engines)							
1986	**1,556**	**565**	**124**	**867**	**866**	**—**	*****
1985	1,662	570	150	942	938	4	*
1984	1,901	579	188	1,133	1,130	3	*
1983	2,207	588	190	1,429	1,425	3	1
1982	2,343	501	186	1,656	1,653	2	1
1981	2,795	568	224	2,003	1,995	7	1
1980	3,620	684	266	2,670	2,651	14	5
1979	4,158	625	350	3,183	3,166	8	9
1978	4,722	774	381	3,567	3,553	7	7
1977	4,733	800	382	3,551	3,543	7	1
1976	5,186	718	436	4,032	4,024	8	—
1975	5,674	712	479	4,483	4,471	12	—
1974	5,973	859	447	4,667	4,656	10	1
1973	6,347	731	591	5,025	5,011	13	1
1972	6,701	1,178	541	4,982	4,965	16	1
1971	6,209	1,044	543	4,622	4,598	23	1
1970	6,062	976	515	4,571	4,561	10	—
1969	5,580	707	538	4,335	4,320	14	1
1968	5,185	574	554	4,057	4,017	33	7
1967	4,856	327	591	3,938	3,894	35	9
1966	5,164	281	728	4,155	4,114	38	3

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983 generation by wind included in total. Total Electric Utility Industry (1983)—2.7 kWh in millions; Investor-Owned Utilities—1.5 kWh in millions; Federal—1.2 kWh in millions. Total Electric Utility Industry (1984)—6.5 kWh in millions; Investor-Owned Utilities—3.5 kWh in millions; Federal—2.9 kWh in millions. Total Electric Utility Industry (1985)—5.8 kWh in millions; Investor-Owned Utilities—2.8 kWh in millions; Federal—2.9 kWh in millions. Total Electric Utility Industry (1986)—4.2 kWh in millions; Investor-Owned Utilities—2.8 kWh in millions; Federal—1.4 kWh in millions. Beginning 1984 generation by solar included in total. Total Electric Utility Industry (1984)—5.2 kWh in millions; Investor-Owned Utilities—5.0 kWh in millions; Municipal Utilities—0.2 kWh in millions. Total Electric Utility Industry (1985)—10.6 kWh in millions; Investor-Owned Utilities—8.8 kWh in millions; Municipal Utilities—1.8 kWh in millions. Total Electric Utility Industry (1986)—14.0 kWh in millions; Investor-Owned Utilities—10.4 kWh in millions; Municipal Utilities—3.6 kWh in millions.

( ) Denotes negative figure.

**Less than five hundred thousand kilowatthours.*

Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759).

TABLE 13

GENERATION PER KILOWATT OF INSTALLED NAME PLATE CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

KILOWATTHOURS

Year	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned
	TOTAL				HYDRO			
1986	**3,562**	**3,589**	**4,466**	**3,288**	**3,459**	**2,525**	**3,600**	**3,932**
1985	3,629	3,670	4,393	3,327	3,437	2,471	4,432	3,908
1984	3,632	3,624	4,345	3,535	4,025	3,273	3,444	4,381
1983	3,532	3,512	3,880	3,550	4,228	3,578	3,741	4,529
1982	3,489	3,458	3,868	3,547	3,983	3,334	3,973	4,281
1981	3,676	3,690	4,335	3,533	3,396	2,541	3,448	3,792
1980	3,773	3,789	4,344	3,641	3,639	2,929	3,985	3,968
1979	3,816	3,827	4,272	3,725	3,823	3,103	3,642	4,173
1978	3,872	3,859	4,326	3,877	4,013	3,080	4,104	4,486
1977	3,892	3,945	4,308	3,646	3,230	2,391	3,284	3,660
1976	3,920	3,884	4,320	4,024	4,244	2,942	3,299	4,935
1975	3,895	3,836	4,254	4,102	4,634	3,556	4,149	5,226
1974	4,075	3,991	4,585	4,371	4,802	3,649	3,582	5,439
1973	4,427	4,385	5,021	4,545	4,597	3,788	4,164	5,027
1972	4,557	4,510	5,210	4,693	4,855	4,022	4,074	5,287
1971	4,541	4,532	5,122	4,534	4,800	4,035	4,418	5,198
1970	4,681	4,707	4,949	4,570	4,591	3,785	3,821	5,018
1969	4,772	4,783	4,518	4,749	4,815	4,069	3,805	5,226
1968	4,745	4,804	4,382	4,571	4,482	3,685	4,193	4,946
1967	4,697	4,770	4,289	4,482	4,759	4,176	3,912	5,105
1966	4,729	4,850	4,411	4,363	4,388	3,869	3,722	4,690
	STEAM				INTERNAL COMBUSTION			
1986	**3,606**	**3,661**	**4,520**	**2,946**	**284**	**290**	**398**	**270**
1985	3,683	3,744	4,446	3,032	338	410	460	294
1984	3,605	3,652	4,399	3,055	386	414	593	354
1983	3,463	3,519	3,928	2,966	436	377	608	448
1982	3,449	3,477	3,924	3,139	437	285	554	506
1981	3,748	3,764	4,417	3,478	501	303	638	598
1980	3,825	3,849	4,433	3,528	655	372	764	800
1979	3,849	3,881	4,381	3,527	753	347	903	956
1978	3,885	3,916	4,446	3,578	872	457	992	1,069
1977	4,022	4,048	4,423	3,777	893	487	1,129	1,070
1976	3,906	3,956	4,437	3,478	1,000	454	1,313	1,233
1975	3,815	3,868	4,375	3,358	1,127	479	1,423	1,396
1974	3,995	4,029	4,756	3,629	1,206	592	1,294	1,478
1973	4,441	4,444	5,200	4,298	1,300	478	1,723	1,668
1972	4,551	4,563	5,440	4,318	1,434	778	1,577	1,769
1971	4,540	4,589	5,377	4,063	1,406	769	1,578	1,702
1970	4,751	4,803	5,234	4,321	1,417	751	1,510	1,733
1969	4,820	4,869	4,819	4,493	1,364	593	1,575	1,695
1968	4,862	4,934	4,734	4,425	1,330	535	1,583	1,639
1967	4,742	4,851	4,671	4,096	1,326	364	1,672	1,633
1966	4,864	4,967	4,816	4,247	1,502	368	2,074	1,789

Sources: U.S. Department of Energy, Information Administration, Monthly Power Plant Report (EIA-759), Annual Electric Generator Report (EIA-860), and Annual Electric Utility Report (EIA-861), *as shown in Tables 2 and 12.*

TABLE 14

GENERATION IN PERCENT OF TOTAL
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

Year	Investor-Owned	Cooperatives	Government-Owned	Total	Investor-Owned	Cooperatives	Government-Owned	Total	Investor-Owned	Cooperatives	Government-Owned
	TOTAL			HYDRO				CONVENTIONAL STEAM			
1986	**77.5%**	**4.6%**	**17.9%**	**11.7%**	**2.9%**	*%	**8.8%**	**71.6%**	**59.1%**	**4.5%**	**8.0%**
1985	77.7	4.4	17.9	11.4	2.7	*	8.7	73.0	60.9	4.3	7.8
1984	76.5	4.2	19.3	13.3	3.5	*	9.8	73.1	61.6	4.2	7.3
1983	76.4	3.6	20.0	14.4	3.9	*	10.5	72.8	61.7	3.6	7.5
1982	76.4	3.4	20.2	13.8	3.7	*	10.1	73.5	62.3	3.4	7.8
1981	77.8	3.2	19.0	11.4	2.7	*	8.7	76.6	65.0	3.2	8.4
1980	78.0	2.8	19.2	12.1	3.1	*	9.0	76.8	65.6	2.8	8.4
1979	78.1	2.4	19.5	12.4	3.3	*	9.1	76.0	65.5	2.4	8.1
1978	78.0	2.2	19.8	12.7	3.3	*	9.4	74.6	64.2	2.2	8.2
1977	79.3	2.1	18.6	10.4	2.6	*	7.8	77.6	67.0	2.1	8.5
1976	77.7	2.0	20.3	13.9	3.3	*	10.6	76.4	66.1	1.9	8.4
1975	77.5	1.9	20.6	15.6	4.2	*	11.4	75.1	65.2	1.8	8.1
1974	77.3	1.8	20.9	16.1	4.4	*	11.7	77.5	67.6	1.8	8.1
1973	78.1	1.9	20.0	14.6	4.2	*	10.4	80.6	69.7	1.9	9.0
1972	77.7	1.8	20.5	15.6	4.4	*	11.2	80.9	70.3	1.8	8.8
1971	77.4	1.7	20.9	16.5	4.7	*	11.8	80.7	70.4	1.7	8.6
1970	77.3	1.5	21.2	16.2	4.7	*	11.5	82.0	71.3	1.5	9.2
1969	76.4	1.2	22.4	17.3	5.2	*	12.1	81.3	70.4	1.2	9.7
1968	76.7	1.0	22.3	16.8	5.1	*	11.7	81.9	70.9	1.0	10.0
1967	76.5	1.0	22.5	18.2	5.9	*	12.3	80.7	70.1	0.9	9.7
1966	77.0	1.0	22.0	17.0	5.5	*	11.5	82.1	71.1	0.9	10.1
				NUCLEAR STEAM				INTERNAL COMBUSTION			
1986				**16.6%**	**15.5%**	*%	**1.1%**	**0.1%**	*%	*%	*%
1985				15.5	14.1	*	1.4	0.1	*	*	*
1984				13.5	11.4	*	2.1	0.1	*	*	0.1
1983				12.7	10.8	*	1.9	0.1	*	*	0.1
1982				12.6	10.4	*	2.2	0.1	*	*	0.1
1981				11.9	10.1	*	1.8	0.1	*	*	0.1
1980				11.0	9.3	*	1.7	0.1	*	*	0.1
1979				11.4	9.3	*	2.1	0.2	*	*	0.2
1978				12.5	10.5	*	2.0	0.2	*	*	0.2
1977				11.8	9.7	*	2.1	0.2	*	*	0.2
1976				9.4	8.2	0.1	1.1	0.3	0.1	*	0.2
1975				9.0	8.0	0.1	0.9	0.3	0.1	*	0.2
1974				6.1	5.3	*	0.8	0.3	*	*	0.3
1973				4.5	4.2	*	0.3	0.3	*	*	0.3
1972				3.1	2.9	*	0.2	0.4	0.1	*	0.3
1971				2.4	2.2	*	0.2	0.4	0.1	*	0.3
1970				1.4	1.2	*	0.2	0.4	0.1	*	0.3
1969				1.0	0.7	—	0.3	0.4	0.1	*	0.3
1968				1.0	0.7	*	0.3	0.3	*	*	0.3
1967				0.7	0.5	*	0.2	0.4	*	0.1	0.3
1966				0.5	0.4	*	0.1	0.4	*	0.1	0.3

*Less than one tenth of one percent.

Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759), as shown in Table 12.

TABLE 15

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1985 and 1986—KILOWATTHOURS IN MILLIONS

Division/State	Total Electric Utility Industry† 1986	Total Electric Utility Industry† 1985	Hydro 1986	Hydro 1985	Conventional Steam 1986	Conventional Steam 1985	Nuclear Steam 1986	Nuclear Steam 1985	Internal Combustion 1986	Internal Combustion 1985
Total United States	**2,487,310**	**2,469,841**	**290,844**	**281,149**	**1,780,853**	**1,803,323**	**414,038**	**383,691**	**1,556**	**1,662**
Maine	10,890	9,136	2,033	1,718	2,612	2,062	6,242	5,354	3	2
New Hampshire	6,118	6,034	1,104	975	5,013	5,059	—	—	—	—
Vermont	3,149	4,185	974	852	114	332	2,058	2,999	2	1
Massachusetts	34,481	36,259	329	200	31,618	29,816	2,420	6,133	113	111
Rhode Island	724	547	—	—	712	539	—	—	12	8
Connecticut	32,188	25,227	367	258	13,152	12,247	18,667	12,721	1	1
New England	**87,550**	**81,388**	**4,809**	**4,003**	**53,222**	**50,054**	**29,388**	**27,208**	**132**	**122**
New York	111,295	111,782	29,480	26,956	59,689	60,689	22,084	24,092	42	45
New Jersey	28,782	34,355	(289)	(247)	14,301	16,832	14,770	17,770	—	—
Pennsylvania	147,586	135,018	1,452	971	106,307	107,807	39,820	26,232	6	8
Middle Atlantic	**287,663**	**281,155**	**30,642**	**27,680**	**180,297**	**185,328**	**76,675**	**68,094**	**48**	**53**
Ohio	111,507	110,763	172	175	111,307	108,640	24	1,943	3	5
Indiana	77,342	78,484	506	426	76,831	78,053	—	—	5	5
Illinois	106,892	103,667	124	119	64,132	64,418	42,614	39,106	21	23
Michigan	76,061	74,485	604	881	63,118	60,080	12,257	13,452	81	72
Wisconsin	42,785	41,195	2,161	2,288	29,421	27,925	11,199	10,979	4	4
East North Central	**414,586**	**408,593**	**3,567**	**3,888**	**344,809**	**339,115**	**66,094**	**65,480**	**115**	**109**
Minnesota	28,401	30,954	936	829	16,407	18,549	11,052	11,572	6	3
Iowa	24,137	23,474	952	988	20,190	20,554	2,993	1,927	1	5
Missouri	54,201	57,335	1,996	2,993	45,010	46,274	7,170	8,030	25	38
North Dakota	22,182	22,071	2,326	2,173	19,856	19,898	—	—	(*)	(*)
South Dakota	7,808	7,822	5,704	5,301	2,105	2,523	—	—	(1)	(1)
Nebraska	18,839	15,934	1,678	1,441	9,482	10,332	7,658	4,134	21	27
Kansas	29,531	27,512	8	9	22,317	23,382	6,959	3,856	247	265
West North Central	**185,099**	**185,101**	**13,600**	**13,733**	**135,369**	**141,513**	**35,832**	**29,519**	**299**	**336**
Delaware	8,411	8,470	—	—	8,405	8,465	—	—	5	5
Maryland	37,732	32,300	1,876	1,524	22,993	20,805	12,828	9,926	35	45
District of Columbia	165	107	—	—	165	107	—	—	—	—
Virginia	42,643	42,084	47	818	21,376	18,953	21,215	22,303	5	9
West Virginia	77,520	79,536	361	368	77,159	79,168	—	—	—	—
North Carolina	76,797	74,492	2,518	4,091	53,993	51,099	20,286	19,303	—	—
South Carolina	56,546	53,555	1,217	1,786	19,704	19,943	35,625	31,826	*	*
Georgia	74,909	80,925	2,097	2,772	65,574	68,023	7,238	10,130	*	*
Florida	108,465	96,434	212	244	85,941	72,496	22,036	23,461	276	233
South Atlantic	**483,188**	**467,904**	**8,328**	**11,602**	**355,310**	**339,059**	**119,228**	**116,950**	**322**	**293**
Kentucky	66,915	63,047	2,734	2,941	64,181	60,106	—	—	*	*
Tennessee	56,455	66,581	5,326	6,539	51,234	50,370	(105)	9,672	—	—
Alabama	68,575	72,667	5,227	6,862	51,786	51,492	11,561	14,313	—	—
Mississippi	18,980	19,185	—	—	14,893	14,853	4,087	4,332	—	—
East South Central	**210,924**	**221,480**	**13,286**	**16,343**	**182,094**	**176,821**	**15,544**	**28,317**	*	*
Arkansas	35,135	35,565	2,813	4,434	23,445	21,241	8,876	9,889	*	*
Louisiana	52,843	44,261	—	—	42,203	41,800	10,637	2,457	3	4
Oklahoma	41,073	44,139	2,951	3,980	38,083	40,107	—	—	39	52
Texas	212,850	218,510	1,972	1,401	210,840	217,023	—	—	38	86
West South Central	**341,902**	**342,476**	**7,737**	**9,815**	**314,572**	**320,171**	**19,513**	**12,347**	**80**	**143**
Montana	22,448	18,773	10,857	10,175	11,591	8,598	—	—	*	*
Idaho	12,153	10,866	12,153	10,863	1	2	—	—	*	*
Wyoming	28,774	35,661	1,140	1,068	27,633	34,591	—	—	(*)	(*)
Colorado	28,282	28,812	2,263	2,357	25,968	26,483	52	(32)	(1)	4
New Mexico	23,601	27,108	166	128	23,434	26,980	—	—	*	*
Arizona	51,175	48,227	14,446	13,972	26,753	33,125	9,976	1,130	*	*
Utah	16,819	15,411	1,413	1,019	15,405	14,390	—	—	1	1
Nevada	19,858	16,746	4,584	4,344	15,275	12,402	—	—	(1)	(1)
Mountain	**203,110**	**201,604**	**47,021**	**43,926**	**146,059**	**156,572**	**10,028**	**1,098**	**(1)**	**6**
Washington	92,532	93,140	78,831	76,923	5,262	8,179	8,439	8,038	*	*
Oregon	47,780	48,248	40,743	40,752	(44)	586	7,081	6,911	(*)	(*)
California	121,865	127,846	41,459	31,717	54,148	76,363	26,215	19,729	26	23
Pacific	**262,178**	**269,234**	**161,033**	**149,392**	**59,366**	**85,128**	**41,735**	**34,678**	**26**	**23**
Alaska	4,252	4,285	809	748	3,235	3,279	—	—	208	258
Hawaii	6,858	6,621	12	19	6,520	6,283	—	—	327	319
Alaska & Hawaii	**11,110**	**10,906**	**820**	**767**	**9,755**	**9,562**	**—**	**—**	**535**	**577**

Note: Total may not equal sum of components due to independent rounding.
† Total includes generation by wind (1985—5.8 kWh in millions; 1986—4.2 kWh in millions) and generation by solar (1985—10.6 kWh in millions; 1986—14.0 kWh in millions).
*( ) Denotes negative figure. * Less than five hundred thousand kilowatthours.*
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759).

TABLE 16

GENERATION
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1985 and 1986—KILOWATTHOURS IN MILLIONS

Division/State	Total Investor-Owned Utilities†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
	1986	1985	1986	1985	1986	1985	1986	1985	1986	1985
Total United States	**1,928,199**	**1,918,032**	**71,356**	**66,334**	**1,469,751**	**1,503,349**	**386,513**	**347,769**	**565**	**570**
Maine	10,883	9,129	2,026	1,711	2,612	2,062	6,242	5,354	3	1
New Hampshire	6,118	6,034	1,104	975	5,013	5,059	—	—	—	—
Vermont	2,994	3,806	922	801	11	5	2,058	2,999	2	1
Massachusetts	33,370	35,098	305	162	30,548	28,713	2,420	6,133	97	91
Rhode Island	724	547	—	—	712	539	—	—	12	8
Connecticut	32,171	25,191	354	246	13,149	12,223	18,667	12,721	1	*
New England	**86,261**	**79,805**	**4,712**	**3,895**	**52,046**	**48,600**	**29,388**	**27,208**	**115**	**102**
New York	72,542	77,207	4,471	3,508	57,523	58,496	10,543	15,196	5	7
New Jersey	28,660	34,164	(289)	(244)	14,179	16,639	14,770	17,770	—	—
Pennsylvania	147,586	135,013	1,452	971	106,307	107,803	39,820	26,232	6	8
Middle Atlantic	**248,788**	**246,385**	**5,633**	**4,235**	**178,010**	**182,937**	**65,133**	**59,198**	**12**	**15**
Ohio	100,872	109,507	168	169	100,678	107,392	24	1,943	2	3
Indiana	71,856	72,188	506	426	71,350	71,761	—	—	*	1
Illinois	103,861	100,805	55	53	61,192	61,646	42,614	39,106	*	1
Michigan	71,599	69,974	364	624	58,972	55,893	12,257	13,452	6	5
Wisconsin	38,654	36,636	1,959	2,074	25,653	23,904	11,042	10,656	1	1
East North Central	**386,842**	**389,110**	**3,051**	**3,346**	**317,844**	**320,596**	**65,937**	**65,158**	**10**	**11**
Minnesota	27,789	30,303	911	813	15,825	17,918	11,052	11,572	*	*
Iowa	22,485	21,654	941	979	18,551	18,749	2,993	1,927	(*)	(1)
Missouri	40,253	41,907	889	1,183	32,194	32,695	7,170	8,030	(*)	(*)
North Dakota	2,515	2,818	—	—	2,516	2,819	—	—	(*)	(*)
South Dakota	2,104	2,521	1	*	2,105	2,522	—	—	(1)	(1)
Nebraska	—	—	—	—	—	—	—	—	—	—
Kansas	25,938	23,570	8	9	18,971	19,705	6,959	3,856	—	*
West North Central	**121,085**	**122,774**	**2,751**	**2,985**	**90,162**	**94,407**	**28,174**	**25,385**	**(2)**	**(2)**
Delaware	7,952	8,160	—	—	7,952	8,160	—	—	—	—
Maryland	37,699	32,256	1,876	1,524	22,993	20,805	12,828	9,926	2	1
District of Columbia	165	107	—	—	165	107	—	—	—	—
Virginia	42,389	41,586	(202)	349	21,375	18,931	21,215	22,303	2	2
West Virginia	77,520	79,536	361	368	77,159	79,168	—	—	—	—
North Carolina	76,148	73,670	1,950	3,319	53,911	51,048	20,286	19,303	—	—
South Carolina	47,155	44,231	455	827	11,075	11,577	35,625	31,826	—	—
Georgia	73,722	79,338	913	1,189	65,570	68,018	7,238	10,130	*	*
Florida	90,098	80,132	1	*	68,061	56,670	22,036	23,461	*	1
South Atlantic	**452,847**	**439,015**	**5,353**	**7,576**	**328,261**	**314,485**	**119,228**	**116,950**	**5**	**5**
Kentucky	27,897	27,612	464	391	27,433	27,220	—	—	—	—
Tennessee	92	551	92	551	—	—	—	—	—	—
Alabama	49,729	50,850	2,034	3,149	36,008	36,362	11,686	11,339	—	—
Mississippi	16,605	16,900	—	—	12,518	12,569	4,087	4,332	—	—
East South Central	**94,322**	**95,912**	**2,590**	**4,091**	**75,959**	**76,151**	**15,773**	**15,671**	**—**	**—**
Arkansas	32,471	31,314	150	207	23,445	21,218	8,876	9,889	*	*
Louisiana	44,508	36,328	—	—	33,870	33,870	10,637	2,457	*	*
Oklahoma	31,957	34,222	—	—	31,953	34,219	—	—	4	2
Texas	179,960	185,491	57	59	179,895	185,431	—	—	8	1
West South Central	**288,896**	**287,354**	**207**	**266**	**269,163**	**274,738**	**19,513**	**12,347**	**13**	**3**
Montana	17,047	13,710	5,456	5,111	11,591	8,598	—	—	*	*
Idaho	8,717	7,386	8,717	7,383	1	2	—	—	*	*
Wyoming	18,436	25,074	1	—	18,435	25,074	—	—	(*)	(*)
Colorado	12,533	12,218	138	102	12,343	12,148	52	(32)	*	*
New Mexico	22,285	25,112	—	—	22,285	25,111	—	—	*	*
Arizona	17,670	11,311	36	36	7,657	10,144	9,976	1,130	*	*
Utah	11,598	14,612	366	235	11,223	14,377	—	—	—	(*)
Nevada	15,296	12,437	22	36	15,275	12,402	—	—	(1)	(1)
Mountain	**123,573**	**121,860**	**14,737**	**12,903**	**98,808**	**107,858**	**10,028**	**1,098**	**(*)**	**(*)**
Washington	9,184	11,787	3,922	3,608	5,262	8,179	—	—	*	*
Oregon	15,488	15,212	8,451	7,715	(44)	586	7,081	6,911	(*)	(*)
California	93,918	102,035	19,970	15,632	47,760	68,528	26,257	17,844	18	18
Pacific	**118,590**	**129,034**	**32,243**	**26,956**	**52,978**	**77,293**	**33,338**	**24,755**	**18**	**18**
Alaska	136	161	67	62	—	—	—	—	69	99
Hawaii	6,858	6,621	12	19	6,520	6,283	—	—	327	319
Alaska & Hawaii	**6,994**	**6,783**	**79**	**81**	**6,520**	**6,283**	**—**	**—**	**395**	**419**

Note: Total may not equal sum of components due to independent rounding.
†Total includes generation by wind (1985—2.8 kWh in millions; 1986—2.8 kWh in millions) and generation by solar (1985—8.8 kWh in millions; 1986—10.4 kWh in millions).
*( ) Denotes negative figure. *Less than five hundred thousand kilowatthours.*
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759).

TABLE 17

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY AND INVESTOR-OWNED ELECTRIC UTILITIES

BY MONTH AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1983-1986—KILOWATTHOURS IN MILLIONS

	Total Electric Utility Industry*					Investor-Owned Electric Utilities*				
Year—Month	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
YEAR—1986										
January	217,470	21,377	159,733	36,219	139	170,455	5,696	131,031	33,664	63
February	192,336	23,222	136,288	32,721	104	149,192	6,249	112,985	29,916	41
March	196,834	28,465	137,487	30,773	107	150,144	7,632	113,693	28,777	40
April	186,074	27,523	127,966	30,477	106	141,097	7,114	105,767	28,176	39
May	197,315	27,205	138,065	31,924	118	151,611	6,539	114,682	30,347	42
June	215,015	26,223	157,305	31,334	151	166,336	6,235	130,792	29,262	46
July	242,672	24,072	182,505	35,894	199	189,342	4,980	150,568	33,742	50
August	225,166	21,189	166,337	37,483	155	176,273	4,548	136,719	34,950	55
September	206,692	21,114	148,849	36,593	135	161,017	4,669	122,316	33,977	54
October	197,754	21,335	140,095	36,214	108	154,504	5,464	114,960	34,034	44
November	196,432	23,153	138,220	34,944	114	153,142	5,779	114,446	32,872	43
December	213,551	25,965	148,002	39,463	120	165,086	6,452	121,791	36,796	48
Total	2,487,310	290,844	1,780,853	414,038	1,556	1,928,199	71,356	1,469,751	386,513	565
YEAR—1985										
January	227,856	27,543	163,973	36,186	153	173,754	6,008	137,349	30,337	59
February	198,242	25,902	141,403	30,812	123	150,552	5,918	118,997	25,587	50
March	194,970	24,640	139,178	31,041	110	150,720	6,342	117,443	26,888	47
April	184,877	24,403	133,907	26,458	107	142,462	6,713	112,093	23,612	43
May	196,790	26,421	141,551	28,697	119	150,762	6,388	117,461	26,872	40
June	205,363	23,839	150,535	30,837	150	158,780	5,089	124,909	28,736	44
July	226,722	21,293	170,058	35,184	187	177,729	4,320	141,397	31,960	52
August	226,050	19,981	171,059	34,812	196	179,285	4,188	142,921	32,121	54
September	202,499	18,767	149,067	34,508	155	161,226	4,363	124,243	32,577	43
October	194,789	20,048	143,409	31,205	126	154,363	5,070	119,464	29,783	45
November	192,427	22,954	139,203	30,166	104	148,991	5,905	114,892	28,151	42
December	219,255	25,359	159,980	33,782	133	169,408	6,029	132,181	31,146	51
Total	2,469,841	281,149	1,803,323	383,691	1,662	1,918,032	66,334	1,503,349	347,769	570
YEAR—1984										
January	216,632	29,737	157,394	29,313	187	165,365	8,341	132,447	24,520	57
February	189,564	27,900	133,088	28,436	140	143,645	7,596	112,405	23,603	41
March	200,107	30,435	142,190	27,345	136	152,991	8,423	121,129	23,395	45
April	181,084	29,970	126,769	24,231	114	136,883	8,807	107,688	20,352	35
May	192,217	31,814	134,410	25,867	126	144,934	8,905	114,419	21,570	38
June	209,648	28,773	155,383	25,299	192	158,914	7,308	130,490	21,058	58
July	221,245	27,495	165,254	28,284	212	168,420	6,456	138,650	23,258	55
August	229,296	25,137	174,417	29,493	247	177,577	5,811	146,891	24,811	63
September	195,198	20,911	144,985	29,146	155	151,564	4,824	121,751	24,946	41
October	190,936	20,887	145,149	24,774	126	149,581	5,166	122,180	22,190	44
November	190,380	22,259	143,404	24,575	141	146,962	5,508	120,193	21,206	55
December	199,996	25,834	143,166	30,872	124	152,080	6,494	119,595	25,941	49
Total	2,416,304	321,150	1,765,608	327,634	1,901	1,848,916	83,639	1,487,840	276,849	579
YEAR—1983										
January	195,579	29,235	141,121	25,073	151	148,379	7,951	118,973	21,414	41
February	172,479	27,950	122,194	22,198	137	130,361	7,925	104,443	17,947	45
March	182,488	30,302	128,136	23,890	160	137,712	9,010	109,219	19,418	65
April	170,372	29,989	117,884	22,335	165	127,950	9,186	101,309	17,380	75
May	174,392	31,194	121,013	22,051	134	131,484	9,068	104,283	18,096	37
June	191,048	30,692	136,030	24,152	174	144,860	7,825	116,212	20,783	40
July	220,165	28,113	166,162	25,602	288	169,170	6,443	140,439	22,239	49
August	229,957	25,828	177,601	26,201	327	177,653	5,394	149,400	22,810	50
September	195,604	21,712	148,681	25,007	203	152,513	5,095	124,855	22,515	48
October	182,931	20,747	136,249	25,797	138	142,471	5,123	115,601	21,707	40
November	182,949	24,678	133,121	25,010	140	140,971	6,780	112,951	21,198	41
December	212,319	31,691	154,076	26,361	191	160,556	8,863	128,764	22,871	58
Total	2,310,285	332,130	1,682,268	293,677	2,207	1,764,080	88,663	1,426,449	248,379	588

Note: Total may not equal sum of components due to independent rounding.

**Beginning 1983 generation by wind included in total. Total Electric Utility Industry (1983)—2.7 kWh in millions; Investor-Owned Utilities—1.5 kWh in millions. Total Electric Utility Industry (1984)—6.5 kWh in millions; Investor-Owned Utilities—3.5 kWh in millions. Total Electric Utility Industry (1985)—5.8 kWh in millions; Investor-Owned Utilities—2.8 kWh in millions. Total Electric Utility Industry (1986)—4.2 kWh in millions; Investor-Owned Utilities—2.8 kWh in millions. Beginning 1984 generation by solar included in total. †Total Electric Utility Industry (1984)—5.2 kWh in millions; Investor-Owned Utilities—5.0 kWh in millions. Total Electric Utility Industry (1985)—10.6 kWh in millions; Investor-Owned Utilities—8.8 kWh in millions. Total Electric Utility Industry (1986—14.0 kWh in millions; Investor-Owned Utilities—10.4 kWh in millions.*

Source: U.S. Department of Energy, Energy Information Administration Monthly Power Plant Report (EIA-759).

TABLE 18

INDEX OF WEEKLY ELECTRIC OUTPUT TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)
SEASONALLY ADJUSTED—1967 AVERAGE = 100
1976-1986

Week Number	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976
1	212	199	201	169	176	180	179	199	184	181	162
2	210	202	192	174	179	189	178	192	184	182	174
3	199	207	204	176	205	197	170	189	184	191	171
4	194	219	195	188	193	185	176	186	182	193	175
5	215	209	190	182	190	182	194	201	193	187	169
6	196	213	190	177	183	191	190	198	185	183	170
7	220	206	177	186	192	192	188	196	180	176	163
8	210	200	187	183	182	176	185	194	183	177	158
9	216	201	206	184	193	187	200	196	187	174	162
10	213	206	207	185	196	193	204	191	186	177	164
11	206	202	205	186	194	192	196	194	176	170	167
12	213	207	202	189	192	198	195	189	170	171	170
13	203	204	195	201	195	195	196	193	170	176	164
14	201	204	203	195	195	189	191	194	173	171	165
15	208	204	203	196	201	193	188	193	174	172	163
16	210	205	202	200	193	195	195	191	180	174	164
17	213	215	206	191	192	195	188	188	177	170	166
18	214	211	206	191	187	198	187	186	177	175	167
19	216	213	208	191	187	193	187	196	180	174	165
20	215	216	205	190	189	192	185	188	181	183	165
21	208	208	208	190	192	188	182	181	182	179	159
22	214	212	199	187	187	192	185	181	187	179	154
23	217	222	214	188	191	198	193	191	183	177	162
24	218	212	220	198	187	204	180	183	178	176	164
25	213	203	215	193	182	205	179	184	179	174	169
26	217	206	209	194	179	200	192	177	188	177	164
27	213	201	205	190	179	194	192	173	175	181	153
28	219	214	212	200	190	202	197	182	179	184	171
29	212	198	192	201	182	195	202	184	187	187	165
30	217	196	194	199	190	194	194	189	185	170	166
31	215	194	192	202	187	185	194	193	178	175	171
32	203	197	206	199	189	192	204	198	183	182	160
33	205	211	214	207	186	198	201	173	193	167	162
34	214	202	206	215	190	186	196	184	185	163	158
35	196	200	207	205	184	188	194	185	180	173	170
36	194	215	196	211	196	197	201	192	185	172	162
37	207	218	213	204	177	187	200	188	193	173	167
38	210	203	199	195	196	193	198	181	197	177	168
39	230	207	206	189	182	189	203	186	183	180	166
40	236	205	197	197	184	195	192	191	186	175	168
41	215	208	202	194	192	194	186	190	184	176	171
42	210	212	206	198	184	194	188	192	185	176	169
43	207	209	207	197	186	194	189	193	185	173	176
44	207	206	208	197	185	193	194	191	185	173	176
45	213	209	205	199	186	188	187	190	182	174	177
46	221	208	206	201	184	188	188	191	186	177	179
47	222	214	204	191	191	192	201	177	194	170	178
48	207	209	208	205	179	187	190	194	181	186	176
49	213	215	212	199	174	184	184	188	187	185	186
50	219	211	199	195	179	189	185	181	192	177	182
51	213	221	191	212	189	196	192	189	184	172	177
52	209	215	190	229	186	198	199	174	184	181	187
Year	**211**	**208**	**202**	**195**	**184**	**192**	**191**	**189**	**183**	**177**	**168**

Note: Seasonal factors are always based on 52 weeks ending on Saturday. Therefore one week is eliminated in 1977 and 1983, since those years had 53 Saturdays.
The above values are based on EEI Weekly Electric Output Index—(Revised Methodology) dated January, 1958.

TABLE 19

WEEKLY ELECTRIC OUTPUT TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)

1984-1986

KILOWATTHOURS IN MILLIONS

Week Ended	1986	Week Ended	1985	Percent Change 86/85	Week Ended	1984	Percent Change 85/84
Jan. 4	48,274	Jan. 5	45,541	6.0	Jan. 7	47,393	(3.9)
11	52,092	12	50,657	2.8	14	49,426	2.5
18	50,349	19	52,261	(3.7)	21	52,607	(0.7)
25	48,516	26	54,739	(11.4)	28	49,589	10.4
Feb. 1	52,327	Feb. 2	52,083	0.5	Feb. 4	47,834	8.9
8	48,016	9	53,507	(10.3)	11	48,189	11.0
15	52,558	16	50,916	3.2	18	44,100	15.5
22	47,748	23	46,797	2.0	25	44,447	5.3
Mar. 1	48,914	Mar. 2	45,239	8.1	Mar. 3	47,146	(4.0)
8	48,297	9	45,886	5.3	10	46,783	(2.1)
15	46,060	16	44,733	3.0	17	45,937	(2.6)
22	46,359	23	44,913	3.2	24	44,464	1.0
29	44,168	30	44,233	(0.1)	31	44,259	(0.1)
Apr. 5	42,906	Apr. 6	43,447	(1.2)	Apr. 7	43,237	0.5
12	44,319	13	43,336	2.3	14	43,057	0.6
19	44,467	20	43,463	2.3	21	42,443	2.4
26	44,483	27	44,467	0.0	28	42,819	3.8
May 3	44,868	May 4	43,927	2.1	May 5	43,008	2.1
10	45,816	11	44,547	2.8	12	43,937	1.4
17	46,208	18	45,922	0.6	19	43,798	4.8
24	45,766	25	45,169	1.3	26	45,243	(0.2)
31	46,738						
		June 1	45,806	2.0	June 2	43,158	6.1
June 7	49,672	8	49,819	(0.3)	9	48,424	2.9
14	51,620	15	49,086	5.2	16	51,288	(4.3)
21	51,977	22	48,948	6.2	23	51,465	(4.9)
28	53,573	29	50,259	6.6	30	50,341	(0.2)
July 5	50,884	July 6	47,698	6.7	July 7	48,325	(1.3)
12	55,347	13	53,502	3.4	14	52,604	1.7
19	56,973	20	53,814	5.9	21	51,226	5.1
26	57,324	27	52,399	9.4	28	50,669	3.4
Aug. 2	56,713	Aug. 3	51,736	9.6	Aug. 4	50,451	2.5
9	53,778	10	52,219	3.0	11	54,095	(3.5)
16	52,404	17	53,800	(2.6)	18	53,078	1.4
23	53,802	24	51,073	5.3	25	50,326	1.5
30	49,898	31	51,006	(2.2)			
Sept. 6	46,845	Sept. 7	52,202	(10.3)	Sept. 1	51,563	(1.1)
13	47,719	14	50,060	(4.7)	8	46,172	13.1
20	47,690	21	46,023	3.6	15	48,732	2.7
27	50,370	28	45,180	11.5	22	45,252	1.7
					29	45,369	(0.4)
Oct. 4	50,642	Oct. 5	44,052	15.0	Oct. 6	42,449	3.8
11	45,800	12	44,305	3.4	13	43,223	2.5
18	44,766	19	45,236	(1.0)	20	43,923	3.0
25	44,409	26	44,696	(0.6)	27	44,188	1.1
Nov. 1	44,823	Nov. 2	44,455	0.8	Nov. 3	44,861	(0.9)
8	45,978	9	44,945	2.3	10	44,739	0.5
15	48,954	16	46,055	6.3	17	45,796	0.6
22	48,772	23	47,026	3.7	24	45,273	3.9
29	45,918	30	46,320	(0.9)			
Dec. 6	49,480	Dec. 7	50,547	(2.1)	Dec. 1	45,991	0.7
13	51,328	14	50,392	1.9	8	49,541	2.0
20	50,956	21	54,033	(5.7)	15	47,458	6.2
27	47,024	28	49,369	(4.7)	22	46,345	16.6
					29	42,591	15.9

Note: "Weekly Electric Output" is the total of that reported by the individual utilities which consists of the net electric energy generated by each respondent utility plus energy received from others less energy delivered for resale.

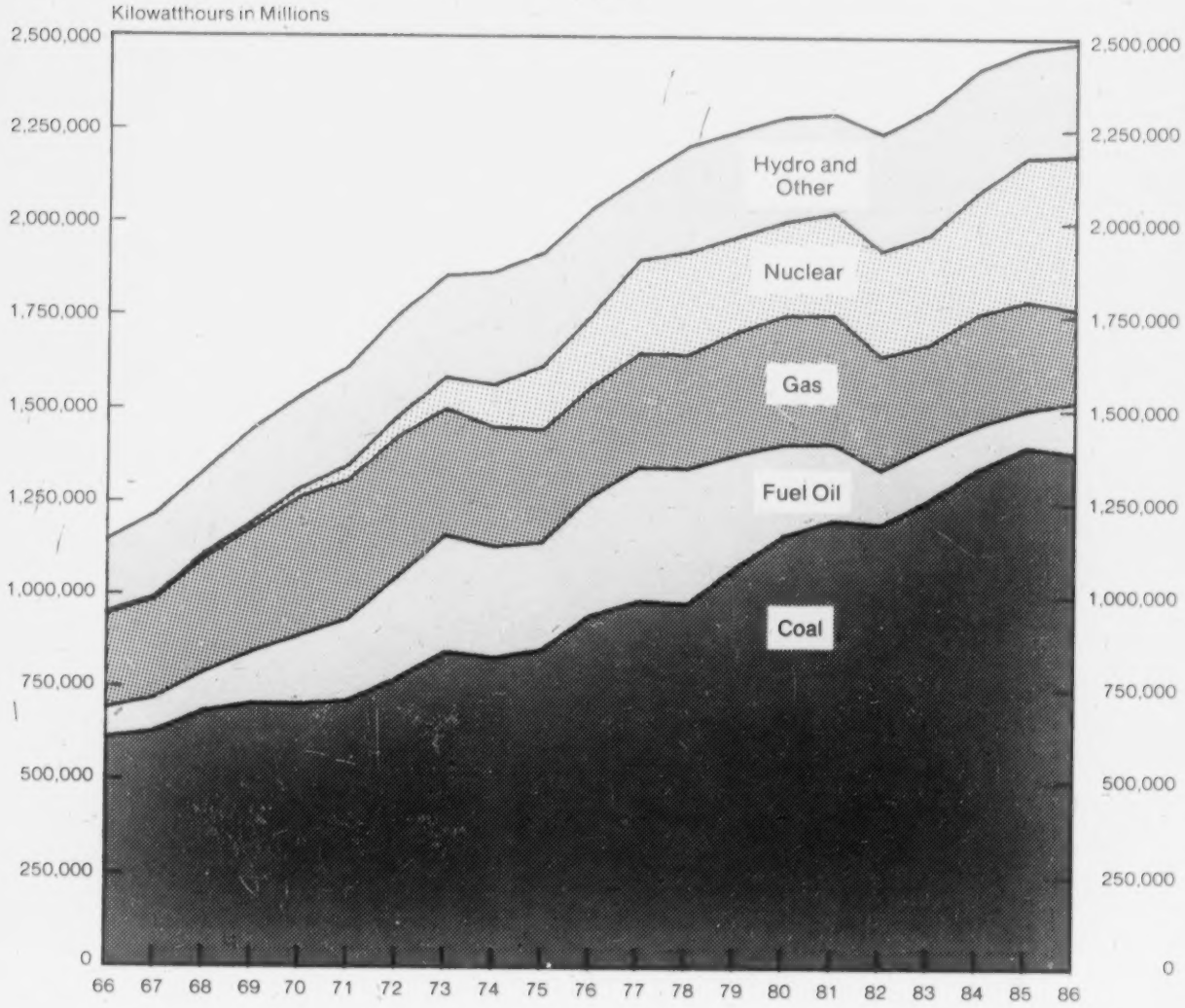
These figures are based on the reports of investor-owned utilities, large municipal systems, and state and Federal agencies comprising 92 percent of the total. They are then expanded to an estimated full coverage of the contiguous United States. As these data are for 52 weeks rather than for the calendar year and include net imports and purchases from industrial plants they do not add to totals for the electric utility industry shown in other tables.

FUEL
SECTION IV

CHART IV-A

ELECTRIC POWER GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY
BY SOURCE



Based on Table 21, page 30.
Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report *(EIA-759).*

TABLE 21

SOURCES OF ENERGY FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY*

BY YEAR AND ENERGY SOURCE
KILOWATTHOURS IN MILLIONS

Year	Total Generation	Coal	Fuel Oil	Gas	Nuclear	Hydro	Other**
1986	**2,487,310**	**1,385,831**	**136,585**	**248,508**	**414,038**	**290,844**	**11,503**
1985	2,469,841	1,402,128	100,202	291,946	383,691	281,149	10,724
1984	2,416,304	1,341,681	119,808	297,394	327,634	321,150	8,638
1983	2,310,285	1,259,424	144,499	274,098	293,677	332,130	6,456
1982	2,241,211	1,192,379	146,423	305,260	282,773	309,213	5,164
1981	2,294,812	1,203,554	206,070	345,777	272,674	260,684	6,054
1980	2,286,414	1,161,969	245,547	346,233	251,121	276,039	5,506
1979	2,247,359	1,075,595	302,948	329,486	255,155	279,790	4,387
1978	2,206,313	976,618	364,153	305,392	276,403	280,432	3,315
1977	2,124,166	985,465	357,866	305,444	250,882	220,446	4,063
1976	2,037,674	944,562	319,779	294,610	191,107	283,734	3,883
1975	1,917,619	852,972	288,873	299,766	172,506	300,065	3,437
1974	1,866,436	829,842	299,306	319,931	113,727	300,928	2,703
1973	1,856,216	845,704	312,805	340,449	83,334	271,634	2,290
1972	1,749,637	772,871	272,530	375,735	54,092	272,626	1,783
1971	1,612,589	714,676	218,608	374,026	38,106	266,314	859
1970	1,531,609	706,102	182,488	372,884	21,797	247,456	882
1969	1,442,182	706,001	137,847	333,279	13,928	250,193	934
1968	1,329,443	684,905	104,276	304,433	12,528	222,491	810
1967	1,214,365	630,483	89,271	264,806	7,655	221,518	632
1966	1,144,350	613,475	78,926	251,151	5,520	194,756	522

Note: Total may not equal sum of components due to independent rounding.
**Generation by petroleum coke included in fuel oil from 1966 to 1980, and 1983 to 1986. In 1981 and 1982 petroleum coke included in coal.*
***Includes generation by geothermal, wood, waste, wind and solar.*
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759).*

TABLE 22

SOURCES OF ENERGY FOR ELECTRIC GENERATION IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND ENERGY SOURCE

Year	Coal	Fuel Oil	Gas	Nuclear	Hydro	Other
1986	**55.7%**	**5.5%**	**10.0%**	**16.6%**	**11.7%**	**0.5%**
1985	56.8	4.1	11.8	15.5	11.4	0.4
1984	55.5	5.0	12.3	13.6	13.3	0.4
1983	54.5	6.3	11.9	12.7	14.4	0.3
1982	53.2	6.5	13.6	12.6	13.8	0.2
1981	52.4	9.0	15.1	11.9	11.4	0.3
1980	50.8	10.7	15.1	11.0	12.1	0.2
1979	47.9	13.5	14.7	11.4	12.4	0.2
1978	44.3	16.5	13.8	12.5	12.7	0.2
1977	46.4	16.8	14.4	11.8	10.4	0.2
1976	46.4	15.7	14.5	9.4	13.9	0.2
1975	44.5	15.1	15.6	9.0	15.6	0.2
1974	44.5	16.0	17.1	6.1	16.1	0.1
1973	45.6	16.9	18.3	4.5	14.6	0.1
1972	44.2	15.6	21.5	3.1	15.6	0.1
1971	44.3	13.6	23.2	2.4	16.5	0.1
1970	46.1	11.9	24.3	1.4	16.2	0.1
1969	49.0	9.6	23.1	1.0	17.3	0.1
1968	51.5	7.8	22.9	0.9	16.7	0.1
1967	51.9	7.4	21.8	0.6	18.2	0.1
1966	53.6	6.9	21.9	0.5	17.0	*

Note: Total may not equal sum of components due to independent rounding.
**Less than one tenth of one percent.*
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759), as shown in Table 21.*

TABLE 23

SOURCES OF ENERGY FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND ENERGY SOURCE
YEAR 1986—KILOWATTHOURS IN MILLIONS

Division/State	Total Generation	Coal†	Fuel Oil††	Gas	Nuclear Fuel	Hydro	Other**
Total United States	**2,487,310**	**1,385,831**	**136,585**	**248,508**	**414,038**	**290,844**	**11,503**
Maine	10,890	–	2,615	–	6,242	2,033	–
New Hampshire	6,118	2,392	2,621	–	–	1,104	–
Vermont	3,149	17	15	*	2,058	974	85
Massachusetts	34,481	9,755	20,665	1,311	2,420	329	–
Rhode Island	724	–	724	–	–	–	–
Connecticut	32,188	1,985	11,103	65	18,667	367	–
New England	**87,550**	**14,149**	**37,743**	**1,377**	**29,388**	**4,809**	**85**
New York	111,295	15,349	31,911	12,471	22,084	29,408	–
New Jersey	28,782	6,288	4,953	3,061	14,770	(289)	–
Pennsylvania	147,586	97,730	8,522	61	39,820	1,452	–
Middle Atlantic	**287,663**	**119,367**	**45,386**	**15,593**	**76,675**	**30,642**	**–**
Ohio	111,507	110,719	275	37	24	172	279
Indiana	77,342	76,446	295	96	–	506	–
Illinois	106,892	61,634	2,036	483	42,614	124	–
Michigan	76,061	61,613	799	788	12,257	604	–
Wisconsin	42,785	29,100	109	105	11,199	2,161	112
East North Central	**414,586**	**339,512**	**3,513**	**1,508**	**66,094**	**3,567**	**391**
Minnesota	28,401	16,267	22	124	11,052	936	–
Iowa	24,137	19,993	42	87	2,993	952	70
Missouri	54,201	44,856	100	79	7,170	1,996	–
North Dakota	22,182	19,835	20	*	–	2,326	*
South Dakota	7,808	2,095	7	1	–	5,704	–
Nebraska	18,839	9,319	54	131	7,658	1,678	–
Kansas	29,531	21,362	84	1,117	6,959	8	*
West North Central	**185,099**	**133,728**	**329**	**1,540**	**35,832**	**13,600**	**70**
Delaware	8,411	5,582	2,623	206	–	–	–
Maryland	37,732	20,195	2,653	142	12,828	1,876	38
District of Columbia	165	–	165	–	–	–	–
Virginia	42,643	18,132	3,176	73	21,215	47	–
West Virginia	77,520	76,876	256	27	–	361	–
North Carolina	76,797	53,758	171	64	20,286	2,518	–
South Carolina	56,546	19,504	67	133	35,625	1,217	–
Georgia	74,909	64,883	270	421	7,238	2,097	–
Florida	108,465	42,632	27,416	16,168	22,036	212	–
South Atlantic	**483,188**	**301,562**	**36,798**	**17,234**	**119,228**	**8,328**	**38**
Kentucky	66,915	64,012	127	43	–	2,734	–
Tennessee	56,465	51,108	126	*	(105)	5,326	–
Alabama	68,575	51,693	34	59	11,561	5,227	–
Mississippi	18,980	9,806	836	4,251	4,087	–	–
East South Central	**210,924**	**176,619**	**1,123**	**4,353**	**15,544**	**13,286**	**–**
Arkansas	35,135	20,676	10	2,759	8,876	2,813	–
Louisiana	52,843	15,586	419	26,202	10,637	–	–
Oklahoma	41,073	18,696	35	19,391	–	2,951	–
Texas	212,850	100,855	410	109,305	–	1,972	308
West South Central	**341,902**	**155,814**	**874**	**157,657**	**19,513**	**7,737**	**308**
Montana	22,448	11,469	9	52	–	10,857	61
Idaho	12,153	–	*	*	–	12,153	–
Wyoming	28,774	27,562	59	12	–	1,140	1
Colorado	28,282	25,630	23	309	52	2,263	4
New Mexico	23,601	21,505	38	1,892	–	166	–
Arizona	51,175	23,958	123	2,672	9,376	14,446	–
Utah	16,819	15,155	74	6	–	1,413	172
Nevada	19,858	14,490	226	558	–	4,584	–
Mountain	**203,110**	**139,768**	**551**	**5,502**	**10,028**	**47,021**	**238**
Washington	92,532	5,058	8	5	8,439	78,831	191
Oregon	47,780	(39)	(5)	*	7,081	40,743	–
California	121,865	–	2,976	41,050	26,215	41,459	10,166
Pacific	**262,178**	**5,019**	**2,979**	**41,055**	**41,735**	**161,033**	**10,357**
Alaska	4,252	293	459	2,691	–	809	–
Hawaii	6,858	–	6,829	–	–	12	18
Alaska & Hawaii	**11,110**	**293**	**7,288**	**2,691**	**–**	**820**	**18**

Note: Total may not equal sum of components due to independent rounding.
† Excludes petroleum coke.
†† Includes petroleum coke.
** Less than five hundred thousand kilowatthours.*
*** Includes generation by geothermal, wood, waste, wind and solar.*
( ) Denotes negative figure.
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759).*

TABLE 24

SOURCES OF ENERGY FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND ENERGY SOURCE
YEAR 1986—PERCENT

Division/State	Total Generation	Coal†	Fuel Oil††	Gas	Nuclear Fuel	Hydro	Other**
Total United States	**100.0%**	**55.7%**	**5.5%**	**10.0%**	**16.6%**	**11.7%**	**0.5%**
Maine	100.0	–	24.0	–	57.3	18.7	–
New Hampshire	100.0	39.1	42.8	–	–	18.0	–
Vermont	100.0	0.5	0.5	*	65.4	30.9	2.7
Massachusetts	100.0	28.3	59.9	3.8	7.0	1.0	–
Rhode Island	100.0	–	100.0	–	–	–	–
Connecticut	100.0	6.2	34.5	0.2	58.0	1.1	–
New England	**100.0**	**16.2**	**43.1**	**1.6**	**33.6**	**5.5**	**0.1**
New York	100.0	13.8	28.7	11.2	19.8	26.5	–
New Jersey	100.0	21.8	17.2	10.6	51.3	(1.0)	–
Pennsylvania	100.0	66.2	5.8	*	27.0	1.0	–
Middle Atlantic	**100.0**	**41.5**	**15.8**	**5.4**	**26.7**	**10.7**	**–**
Ohio	100.0	99.3	0.2	*	*	0.2	0.3
Indiana	100.0	98.8	0.4	0.1	–	0.7	–
Illinois	100.0	57.7	1.9	0.5	39.9	0.1	–
Michigan	100.0	81.0	1.1	1.0	16.1	0.8	–
Wisconsin	100.0	68.0	0.3	0.2	26.2	5.1	0.3
East North Central	**100.0**	**81.9**	**0.8**	**0.4**	**15.9**	**0.9**	**0.1**
Minnesota	100.0	57.3	*	0.4	38.9	3.3	–
Iowa	100.0	82.8	0.2	0.4	12.4	3.9	0.3
Missouri	100.0	82.8	0.2	0.1	13.2	3.7	–
North Dakota	100.0	89.4	0.1	*	–	10.5	–
South Dakota	100.0	26.8	0.1	*	–	73.1	–
Nebraska	100.0	49.5	0.3	0.7	40.6	8.9	–
Kansas	100.0	72.3	0.3	3.8	23.6	*	*
West North Central	**100.0**	**72.2**	**0.2**	**0.8**	**19.4**	**7.3**	*****
Delaware	100.0	66.4	31.2	2.4	–	–	–
Maryland	100.0	53.5	7.0	0.4	34.0	5.0	0.1
District of Columbia	100.0	–	100.0	–	–	–	–
Virginia	100.0	42.5	7.4	0.2	49.8	0.1	–
West Virginia	100.0	99.2	0.3	*	–	0.5	–
North Carolina	100.0	70.0	0.2	0.1	26.4	3.3	–
South Carolina	100.0	34.5	0.1	0.2	63.0	2.2	–
Georgia	100.0	86.6	0.4	0.6	9.7	2.8	–
Florida	100.0	39.3	25.3	14.9	20.3	0.2	–
South Atlantic	**100.0**	**62.4**	**7.6**	**3.6**	**24.7**	**1.7**	*****
Kentucky	100.0	95.7	0.2	0.1	–	4.1	–
Tennessee	100.0	90.5	0.2	*	(0.2)	9.4	–
Alabama	100.0	75.4	*	0.1	16.9	7.6	–
Mississippi	100.0	51.7	4.4	22.4	21.5	–	–
East South Central	**100.0**	**83.7**	**0.5**	**2.1**	**7.4**	**6.3**	**–**
Arkansas	100.0	58.8	*	7.9	25.3	8.0	–
Louisiana	100.0	29.5	0.8	49.6	20.1	–	–
Oklahoma	100.0	45.5	*	47.2	–	7.2	–
Texas	100.0	47.4	0.2	51.4	–	0.9	0.1
West South Central	**100.0**	**45.6**	**0.3**	**46.1**	**5.7**	**2.3**	**0.1**
Montana	100.0	51.1	*	0.2	–	48.4	0.3
Idaho	100.0	–	*	*	–	100.0	–
Wyoming	100.0	95.8	0.2	*	–	4.0	*
Colorado	100.0	90.6	0.1	1.1	0.2	8.0	*
New Mexico	100.0	91.1	0.2	8.0	–	0.7	–
Arizona	100.0	46.8	0.2	5.2	19.5	28.2	–
Utah	100.0	90.1	0.4	*	–	8.4	1.0
Nevada	100.0	73.0	1.1	2.8	–	23.1	–
Mountain	**100.0**	**68.8**	**0.3**	**2.7**	**4.9**	**23.2**	**0.1**
Washington	100.0	5.5	*	*	9.1	85.2	0.2
Oregon	100.0	(0.1)	(*)	*	14.8	85.3	–
California	100.0	–	2.4	33.7	21.5	34.0	8.3
Pacific	**100.0**	**1.9**	**1.1**	**15.7**	**15.9**	**61.4**	**4.0**
Alaska	100.0	6.9	10.8	63.3	–	19.0	–
Hawaii	100.0	–	99.6	–	–	0.2	0.3
Alaska & Hawaii	**100.0**	**2.6**	**65.6**	**24.2**	**–**	**7.4**	**0.2**

Note: Total may not equal sum of components due to independent rounding.
†Excludes petroleum coke.
††Includes petroleum coke.
**Less than one tenth of one percent.*
***Includes generation by geothermal, wood, waste, wind and solar.*
( ) Denotes negative figure.
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759), as shown in Table 23.

TABLE 25

CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND KIND OF FUEL

Year	Coal* (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents**† (Thousand Short Tons)	Net Generation by Fuels** (kWh in Millions)	Heat Rate† (Btu per kWh)	Lbs. of Coal per kWh†
1986	**685,056**	**230,482**	**2,602,370**	**907,720‡**	**1,770,925**	**10,423**	**0.989**
1985	693,841	173,414	3,044,083	926,793‡	1,794,276	10,429r	0.990
1984	664,399	204,479	3,111,342	909,156‡	1,758,882	10,385	0.990
1983	625,211	245,497	2,910,767	867,621‡	1,678,021	10,547	0.993
1982	593,666	249,771	3,225,518	858,869‡	1,644,062	10,517	0.996
1981	596,936	351,111	3,640,154	922,133‡	1,755,401	10,506	0.992
1980	569,453	420,214	3,681,595	916,952‡	1,753,749	10,489	0.980
1979	527,317	523,256	3,490,517	837,371	1,708,029	10,470	0.981
1978	481,624	635,829	3,188,370	811,814	1,646,163	10,495	0.986
1977	477,215	623,656	3,190,571	798,425	1,648,775	10,449	0.969
1976	448,431	555,583	3,080,627	740,112	1,558,951	10,369	0.950
1975	406,032	506,081	3,157,591	686,236	1,441,611	10,383	0.952
1974	392,344	536,140	3,429,072	685,115	1,449,079	10,481	0.946
1973	388,190	559,842	3,640,756	688,043	1,498,958	10,429	0.918
1972	352,391	493,663	3,976,762	647,968	1,421,136	10,479	0.912
1971	327,878	396,438	3,975,972	599,766	1,307,310	10,536	0.918
1970	320,818	335,504	3,931,996	573,152	1,261,474	10,508	0.909
1969	310,641	251,027	3,487,642	517,937	1,177,127	10,457	0.880
1968	297,779	188,642	3,147,909	475,475	1,093,614	10,371	0.870
1967	274,185	161,278	2,746,352	428,165	984,560	10,396	0.870
1966	266,477	140,949	2,609,949	409,854	943,552	10,399	0.869

** Beginning in 1982, petroleum coke excluded from Coal.*
*** Excludes geothermal, wood, waste, and nuclear fuels.*
† EEI estimate.
‡ Beginning in 1980, Coal Equivalents are calculated on the basis of Btu instead of generation data.
r Revised.
Sources: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report (EIA-759).

TABLE 26

CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND KIND OF FUEL—YEAR 1986

Division/State	Coal (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents†‡ (Thousand Short Tons)	Net Generation by Fuels† (kWh in Millions)	Heat Rate‡ (Btu per kWh)	Lbs. of Coal per kWh‡
Total United States	**685,056**	**230,482**	**2,602,370**	**907,720**	**1,770,925**	**10,423**	**0.989**
Maine	–	4,392	–	1,040	2,615	10,628	–
New Hampshire	917	4,569	–	2,015	5,013	10,671	0.767
Vermont	12	46	3	22	31	20,187	1.412
Massachusetts	3,596	33,076	14,875	12,048	31,731	10,027	0.737
Rhode Island	–	1,487	–	354	724	12,911	–
Connecticut	763	18,430	740	5,155	13,153	10,448	0.769
New England	**5,288**	**62,000**	**15,618**	**20,635**	**53,269**	**10,270**	**0.747**
New York	6,298	53,453	133,580	25,016	59,731	10,551	0.821
New Jersey	2,637	9,186	36,877	6,308	14,301	10,944	0.839
Pennsylvania	40,589	14,441	724	44,249	106,314	10,266	0.831
Middle Atlantic	**49,523**	**77,080**	**171,181**	**75,573**	**180,345**	**10,415**	**0.830**
Ohio	47,785	576	606	47,955	111,031	10,154	0.863
Indiana	37,309	323	1,086	37,448	76,836	10,343	0.976
Illinois	30,844	4,624	6,067	32,523	64,154	10,738	1.001
Michigan	27,061	1,666	10,945	27,666	63,199	10,247	0.878
Wisconsin	16,601	260	1,783	16,774	29,313	10,982	1.141
East North Central	**159,601**	**7,449**	**20,487**	**162,366**	**344,533**	**10,393**	**0.940**
Minnesota	10,170	60	1,734	10,290	16,413	10,904	1.250
Iowa	12,044	105	1,365	12,154	20,122	11,010	1.205
Missouri	22,029	240	1,182	22,154	45,035	10,461	0.982
North Dakota	17,291	57	2	17,317	19,856	11,452	1.743
South Dakota	2,018	39	41	2,039	2,104	12,130	1.926
Nebraska	5,945	103	1,713	6,078	9,504	11,093	1.276
Kansas	14,097	188	15,029	15,007	22,564	11,479	1.320
West North Central	**83,595**	**792**	**21,066**	**85,039**	**135,598**	**10,978**	**1.250**
Delaware	2,350	3,769	1,796	3,324	8,411	10,758	0.842
Maryland	7,961	5,002	2,194	9,280	22,991	10,188	0.788
District of Columbia	–	474	–	115	165	17,223	–
Virginia	7,345	4,909	847	8,575	21,381	10,280	0.810
West Virginia	30,790	381	298	30,892	77,159	9,715	0.801
North Carolina	20,542	349	1,137	20,670	53,993	9,601	0.764
South Carolina	7,777	118	1,386	7,861	19,704	9,956	0.797
Georgia	26,652	525	5,803	27,029	65,574	9,959	0.822
Florida	17,822	44,465	169,533	36,473	86,216	10,215	0.836
South Atlantic	**121,239**	**59,992**	**182,994**	**144,218**	**355,594**	**9,970**	**0.804**
Kentucky	28,535	236	437	28,613	64,181	10,362	0.892
Tennessee	21,051	232	–	21,108	51,234	9,807	0.824
Alabama	21,436	67	1,054	21,500	51,786	10,079	0.829
Mississippi	4,208	1,420	47,613	6,598	14,893	10,742	0.858
East South Central	**75,231**	**1,954**	**49,104**	**77,818**	**182,094**	**10,156**	**0.852**
Arkansas	12,505	61	28,425	14,282	23,445	10,331	1.210
Louisiana	10,196	709	267,862	28,193	42,206	10,683	1.308
Oklahoma	11,628	123	197,239	23,497	38,122	10,735	1.244
Texas	74,757	847	1,106,826	153,060	210,571	10,539	1.482
West South Central	**109,086**	**1,739**	**1,600,352**	**219,032**	**314,344**	**10,570**	**1.400**
Montana	7,438	25	407	7,475	11,530	10,889	1.297
Idaho	–	1	5	1	1	13,754	–
Wyoming	17,452	123	138	17,503	27,633	10,823	1.266
Colorado	14,150	96	4,650	14,401	25,962	10,721	1.104
New Mexico	13,147	83	20,182	14,328	23,434	11,094	1.223
Arizona	11,861	242	30,607	13,421	26,753	10,774	0.990
Utah	6,756	135	230	6,801	15,235	11,445	0.892
Nevada	7,086	527	6,592	7,538	15,274	11,141	0.978
Mountain	**77,891**	**1,231**	**62,810**	**81,468**	**145,822**	**10,940**	**1.115**
Washington	3,329	20	124	3,344	5,072	10,474	1.316
Oregon	–	4	*	1	(44)	–	–
California	–	5,680	444,226	30,886	44,026	11,050	–
Pacific	**3,329**	**5,704**	**444,350**	**34,232**	**49,053**	**11,002**	**1.327**
Alaska	272	966	34,409	2,797	3,443	14,721	1.857
Hawaii	–	11,575	–	4,542	6,829	10,551	–
Alaska & Hawaii	**272**	**12,541**	**34,409**	**7,339**	**10,272**	**11,886**	**1.857**

Note: Total may not equal sum of components due to independent rounding.
†Excludes geothermal, wood, waste, and nuclear fuels.
‡EEI estimate.
**Less than five hundred thousand cubic feet. ( ) Denotes negative figure.*
Source: U.S. Department of Energy, Energy Information Administration. Monthly Power Plant Report *(EIA-759).*

TABLE 27

ANALYSIS OF FUEL FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
1983-1986 BY GEOGRAPHIC DIVISION

		Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division	Year	Cost per Million Btu Consumed	Cost of Fuel per Net kWh	Btu per Net kWh	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per MCF	Btu per Cu Ft
United States	1986	184.5¢	1.92¢	10,423	165.5¢	$34.85	10,531	283.4¢	$17.74	149,050	232.3¢	239.90¢	1,033
	1985	217.7	2.27	10,429	173.1	36.48	10,538	450.6	28.22	149,116	343.2	355.44	1,036
	1984	232.0	2.41	10,385	173.5	36.53	10,526	490.8	30.64	148,662	381.3	394.71	1,035
	1983	227.8	2.40	10,547	172.1	36.20	10,517	480.1	29.93	148,452	348.7	358.30	1,028
New England	1986	238.9	2.45	10,270	204.8	54.25	13,243	251.4	15.83	149,923	235.9	242.28	1,027
	1985	354.3	3.66	10,334	217.7	57.53	13,211	428.4	27.05	150,309	346.8	359.46	1,037
	1984	399.7	4.08	10,219	220.5	56.28	13,153	472.3	29.65	149,502	406.9	427.19	1,050
	1983	390.2	4.03	10,330	235.7	62.19	13,153	443.3	27.81	149,381	395.3	414.65	1,049
Middle Atlantic	1986	201.6	2.10	10,415	161.5	40.07	12,402	285.8	17.80	148,266	249.5	259.23	1,039
	1985	254.7	2.67	10,471	171.5	42.43	12,371	454.5	28.38	148,656	381.3	394.00	1,033
	1984	287.5	2.96	10,296	176.9	42.34	11,966	496.9	30.93	148,195	429.0	442.60	1,032
	1983	280.4	2.95	10,529	167.3	41.46	12,394	477.8	29.74	148,180	419.5	433.35	1,033
East North Central	1986	186.0	1.93	10,393	180.4	39.87	11,051	589.3	36.60	147,883	409.7	246.11	601
	1985	191.1	1.98	10,378	186.8	41.22	11,033	593.8	36.60	146,760	477.0	304.56	639
	1984	191.5	1.98	10,329	185.4	41.00	11,058	617.5	38.60	148,825	464.7	338.94	729
	1983	193.5	2.00	10,361	183.7	40.70	11,079	711.9	44.41	148,543	475.2	356.47	750
West North Central	1986	136.5	1.50	10,978	134.3	23.45	8,729	350.8	21.35	144,908	268.2	262.69	979
	1985	145.5	1.59	10,951	142.7	24.90	8,723	528.1	30.95	139,537	303.2	295.90	976
	1984	149.0	1.62	10,887	144.3	25.72	8,910	568.8	33.29	139,331	332.9	325.77	991
	1983	152.9	1.64	10,747	146.9	25.60	8,711	449.4	25.98	137,616	316.3	308.51	991
South Atlantic	1986	193.7	1.93	9,970	185.2	45.81	12,367	254.2	16.03	150,120	208.8	210.53	1,008
	1985	217.0	2.17	10,013	195.0	47.94	12,290	422.7	26.56	149,628	329.0	332.14	1,010
	1984	225.1	2.24	9,958	193.6	47.45	12,256	461.0	28.86	149,055	346.6	349.84	1,009
	1983	230.8	2.42	10,504	195.0	48.05	12,320	439.7	27.60	149,464	266.9	268.88	1,007
East South Central	1986	171.4	1.74	10,156	169.4	40.25	11,881	232.4	14.54	148,945	227.4	236.10	1,038
	1985	185.8	1.89	10,175	182.3	43.10	11,817	595.6	35.61	142,358	276.6	287.64	1,040
	1984	187.2	1.90	10,160	183.5	43.22	11,777	619.8	37.61	144,479	259.9	272.72	1,029
	1983	191.9	1.93	10,064	187.2	43.29	11,559	569.4	33.15	138,606	308.6	317.85	1,029
West South Central	1986	192.6	2.04	10,570	164.0	25.24	7,698	450.9	27.73	146,451	218.6	227.18	1,039
	1985	240.6	2.55	10,583	168.2	26.66	7,923	457.4	28.96	150,737	304.9	316.80	1,039
	1984	275.8	2.90	10,517	182.2	28.74	7,887	472.3	28.45	143,432	344.7	357.27	1,036
	1983	249.0	2.66	10,672	176.0	27.88	7,920	363.3	21.05	137,927	305.8	315.13	1,031
Mountain	1986	121.8	1.33	10,940	114.3	21.98	9,615	369.1	22.40	144,539	270.4	279.85	1,035
	1985	134.2	1.44	10,733	120.8	23.52	9,735	516.3	31.18	143,759	359.4	372.94	1,038
	1984	125.4	1.36	10,810	112.8	21.84	9,683	518.4	31.14	143,031	442.2	474.42	1,073
	1983	120.6	1.33	11,057	107.7	2.28	9,874	516.8	31.23	143,893	390.4	368.77	945
Pacific	1986	285.1	3.14	11,002	160.0	25.81	8,065	458.9	28.16	146,103	284.4	296.59	1,043
	1985	420.6	4.52	10,748	161.2	25.05	7,771	552.8	33.93	146,122	446.5	468.67	1,050
	1984	470.2	5.17	11,002	157.5	24.86	7,893	587.1	36.14	146,573	507.6	533.16	1,050
	1983	491.9	5.44	11,063	149.3	22.79	7,636	761.2	47.21	147,656	510.8	534.35	1,046
Alaska	1986	147.1	2.17	14,721	181.7	28.85	7,938	332.6	19.44	139,178	94.5	94.54	1,001
	1985	133.0	1.68	12,649	180.3	28.58	7,927	550.1	31.44	136,089	69.9	70.19	1,004
	1984	127.5	1.64	12,835	179.8	28.30	7,872	613.8	31.94	123,874	77.3	77.60	1,004
	1983	280.6	3.61	12,848	174.5	27.26	7,811	687.8	37.11	128,465	137.0	136.98	1,000
Hawaii	1986	312.2	3.29	10,551	–	–	–	312.2	19.45	148,315	–	–	–
	1985	491.6	5.15	10,474	–	–	–	491.6	30.74	148,869	–	–	–
	1984	546.6	5.75	10,517	–	–	–	546.6	34.25	149,196	–	–	–
	1983	547.4	5.73	10,468	–	–	–	547.4	34.24	148,933	–	–	–

(a) Coal includes bituminous and anthracite coal and relatively small amounts of lignite. Beginning 1984 coal excludes petroleum coke, and beginning 1985 excludes wood.
(b) Oil includes fuel oil, crude oil, and small amounts of tar and gasoline. Beginning 1984 oil includes petroleum coke.
(c) Gas includes natural and manufactured gas and waste gas.

TABLE 28

ANALYSIS OF FUEL FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
BY STATE—YEAR 1986

	Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division/State	Cost per Million Btu Consumed	Cost of Fuel per Net kWh	Btu per Net kWh	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per MCF	Btu per Cu Ft
Total United States	**184.5¢**	**1.92¢**	**10,423**	**165.5¢**	**$34.85**	**10,531**	**283.4¢**	**$17.74**	**149,050**	**232.3¢**	**239.90¢**	**1,033**
Maine	257.2	2.73	10,628	—	—	—	257.2	16.13	149,358	—	—	—
New Hampshire	214.8	2.29	10,671	221.4	59.19	13,366	209.2	13.44	152,969	—	—	—
Vermont	259.3	5.23	20,187	145.1	36.94	12,729	608.2	34.82	136,330	696.0	696.00	1,000
Massachusetts	228.8	2.29	10,027	195.9	51.75	13,210	243.3	15.30	149,756	236.5	242.78	1,026
Rhode Island	277.6	3.58	12,911	—	—	—	277.6	17.49	150,005	242.7	250.00	1,030
Connecticut	265.5	2.77	10,448	229.2	60.83	13,272	272.2	17.11	149,628	208.9	216.30	1,036
New England	**238.9**	**2.45**	**10,270**	**204.8**	**54.25**	**13,243**	**251.4**	**15.83**	**149,923**	**235.9**	**242.28**	**1,027**
New York	248.5	2.62	10,551	173.1	43.67	12,610	286.0	17.83	148,396	244.5	254.23	1,040
New Jersey	247.8	2.71	10,944	194.5	50.62	13,013	296.1	18.48	148,591	265.6	275.24	1,036
Pennsylvania	168.0	1.72	10,266	157.6	38.87	12,333	278.7	17.28	147,607	428.2	439.01	1,025
Middle Atlantic	**201.6**	**2.10**	**10,415**	**161.5**	**40.07**	**12,402**	**285.8**	**17.80**	**148,266**	**249.5**	**259.23**	**1,039**
Ohio	169.2	1.72	10,154	168.6	39.83	11,814	507.0	30.01	140,912	430.3	436.09	1,013
Indiana	163.5	1.69	10,343	162.9	34.60	10,620	511.0	29.44	137,176	456.4	460.10	1,008
Illinois	235.3	2.53	10,738	215.2	45.48	10,568	682.7	43.21	150,687	467.4	478.98	1,025
Michigan	192.3	1.97	10,247	188.0	44.14	11,741	372.6	22.52	143,903	371.1	140.66	379
Wisconsin	180.5	1.98	10,982	178.2	34.22	9,599	417.2	24.29	138,628	361.3	364.48	1,009
East North Central	**186.0**	**1.93**	**10,393**	**180.4**	**39.87**	**11,051**	**589.3**	**36.60**	**147,883**	**409.7**	**246.11**	**601**
Minnesota	150.2	1.64	10,904	148.5	25.83	8,700	451.7	26.38	139,063	290.3	289.95	999
Iowa	148.9	1.64	11,010	147.0	27.11	9,221	457.6	28.18	146,629	331.5	336.14	1,014
Missouri	152.2	1.59	10,461	151.3	32.04	10,590	301.7	18.65	147,145	271.7	269.72	993
North Dakota	85.3	0.98	11,452	84.8	11.09	6,537	444.3	25.89	138,777	435.2	500.00	1,149
South Dakota	128.5	1.56	12,130	126.5	15.82	6,254	472.1	27.39	138,149	351.0	348.48	993
Nebraska	115.1	1.28	11,093	111.8	19.23	8,603	272.3	16.77	146,680	327.3	316.33	966
Kansas	144.6	1.66	11,479	138.9	24.02	8,648	394.9	23.31	140,558	250.9	244.15	973
West North Central	**136.5**	**1.50**	**10,978**	**134.3**	**23.45**	**8,729**	**350.8**	**21.35**	**144,908**	**268.2**	**262.69**	**979**
Delaware	216.8	2.33	10,758	197.0	51.73	13,131	267.4	16.88	150,274	273.9	273.41	998
Maryland and D.C.	198.5	2.03	10,238	177.4	44.87	12,645	319.6	19.83	147,726	273.4	278.18	1,018
Virginia	199.7	2.05	10,280	179.7	45.92	12,773	320.5	19.93	148,082	489.8	508.07	1,037
West Virginia	158.7	1.54	9,715	158.3	30.07	12,343	500.1	29.05	138,307	—	—	—
North Carolina	191.0	1.83	9,601	190.1	47.75	12,557	454.1	26.45	138,699	286.3	296.92	1,037
South Carolina	189.3	1.88	9,956	188.3	47.57	12,628	587.5	34.65	140,429	277.0	283.76	1,025
Georgia	191.1	1.90	9,959	190.6	46.03	12,074	283.7	16.96	142,369	200.0	205.34	1,027
Florida	223.2	2.28	10,215	221.6	53.75	12,127	235.7	14.93	150,812	206.3	207.76	1,007
South Atlantic	**193.7**	**1.93**	**9,970**	**195.2**	**45.81**	**12,367**	**254.2**	**16.03**	**150,120**	**208.8**	**210.53**	**1,008**
Kentucky	144.8	1.50	10,362	144.7	33.64	11,628	452.7	26.18	137,701	361.9	363.82	1,005
Tennessee	149.1	1.46	9,807	148.9	35.42	11,894	385.4	22.70	140,215	305.5	316.33	1,036
Alabama	204.7	2.06	10,079	204.5	49.64	12,135	269.1	15.52	137,273	291.2	320.18	1,100
Mississippi	240.0	2.58	10,742	248.6	60.69	12,203	223.1	14.05	149,999	226.2	234.65	1,037
East South Central	**171.4**	**1.74**	**10,156**	**169.4**	**40.25**	**11,881**	**232.4**	**14.54**	**148,945**	**227.4**	**236.10**	**1,038**
Arkansas	177.2	1.83	10,331	179.9	30.66	8,522	445.6	26.19	139,938	155.7	163.99	1,053
Louisiana	186.5	1.99	10,683	177.5	28.07	7,907	471.2	29.35	148,274	186.7	195.39	1,046
Oklahoma	216.9	2.34	10,785	164.2	28.59	8,705	288.2	16.92	139,820	268.2	280.00	1,044
Texas	191.2	2.02	10,539	158.6	23.36	7,362	433.3	26.38	144,974	219.4	227.47	1,037
West South Central	**192.6**	**2.04**	**10,570**	**164.0**	**25.24**	**7,698**	**450.9**	**27.73**	**146,451**	**218.6**	**227.18**	**1,039**
Montana	68.3	0.74	10,889	67.8	11.61	8,569	485.9	28.72	140,753	124.3	149.13	1,200
Idaho	368.9	5.07	13,754	—	—	—	253.4	14.90	140,045	471.1	480.00	1,048
Wyoming	92.5	1.00	10,823	91.6	15.57	8,498	460.1	27.05	139,972	378.8	386.36	1,039
Colorado	123.7	1.33	10,721	120.5	23.36	9,691	478.6	27.55	137,076	307.8	285.87	929
New Mexico	130.4	1.45	11,094	113.7	20.68	9,090	323.0	19.49	143,672	316.1	328.39	1,039
Arizona	151.9	1.64	10,774	136.3	29.10	10,677	642.8	37.89	140,339	232.9	242.75	1,042
Utah	138.9	1.59	11,445	138.3	32.12	11,611	430.0	25.54	141,451	759.5	826.32	1,088
Nevada	146.9	1.64	11,141	138.4	31.24	11,287	308.8	19.13	147,459	303.3	319.11	1,052
Mountain	**121.8**	**1.33**	**10,940**	**114.3**	**21.98**	**9,615**	**369.1**	**22.40**	**144,539**	**270.4**	**279.85**	**1,035**
Washington	160.8	1.68	10,474	160.0	25.81	8,065	417.0	24.57	140,286	325.9	341.94	1,049
Oregon	643.3	—	—	—	—	—	643.3	37.50	138,800	—	—	—
California	296.4	3.27	11,050	—	—	—	458.9	28.17	146,124	284.4	296.58	1,043
Pacific	**285.1**	**3.14**	**11,002**	**160.0**	**25.81**	**8,065**	**458.9**	**28.16**	**146,103**	**284.4**	**296.59**	**1,043**
Alaska	147.1	2.17	14,721	181.7	28.85	7,938	332.6	19.44	139,178	94.5	94.54	1,001
Hawaii	312.2	3.29	10,551	—	—	—	312.2	19.45	148,315	—	—	—
Alaska & Hawaii	**246.8**	**2.93**	**11,886**	**181.7**	**28.85**	**7,938**	**314.5**	**19.45**	**147,253**	**94.5**	**94.54**	**1,001**

See page 35 for footnotes

TABLE 29

AVERAGE COST OF FOSSIL FUELS DELIVERED TO STEAM-ELECTRIC UTILITY PLANTS

BY YEARS
(CENTS PER MILLION BTU)

Year	Coal	Residual Oil*	Natural Gas**	All Fossil Fuels**
1986	157.9	240.1	234.4	175.0
1985r	164.8	424.4	343.1	209.6
1984	166.4	481.2	358.3	219.2
1983	165.6	457.8	347.4	220.6
1982	164.7	483.2	337.6	224.9
1981	153.2	533.4	280.5	225.6

Residual fuel oil prices include Fuel Oil No. 4, No. 5, No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (Fuel Oil No. 2, kerosene, and jet fuel) prices.

*** Includes small quantities of coke oven gas, refinery gas and blast furnace gas.*

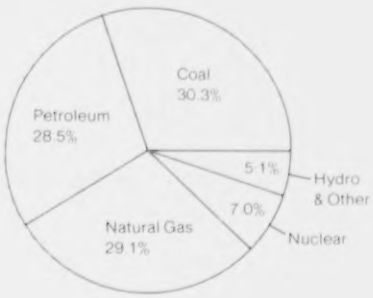
r Revised.

Source: U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.

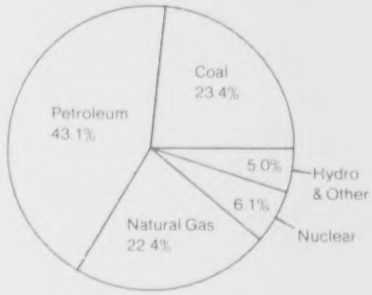
ENERGY
SECTION V

CHART V-A
ENERGY PRODUCTION AND CONSUMPTION
BY PRIMARY ENERGY SOURCE

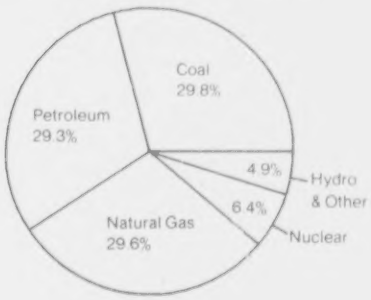
1986 Production
Total BTU's = 64.317 Quads



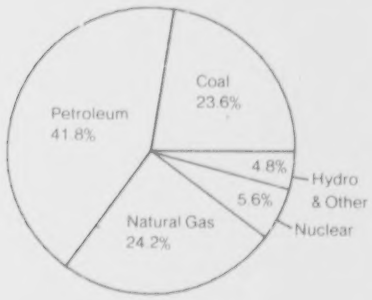
1986 Consumption
Total BTU's = 73.873 Quads



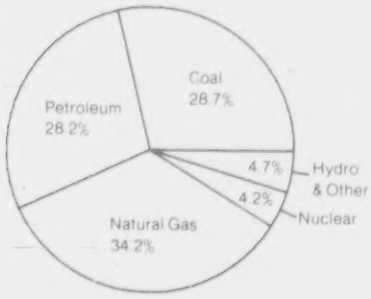
1985 Production
Total BTU's = 64.784 Quads



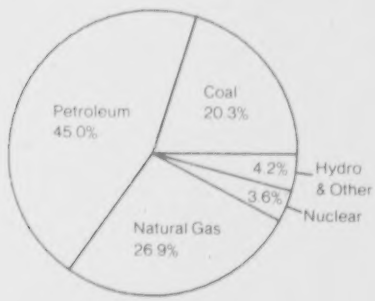
1985 Consumption
Total BTU's = 73.962 Quads



1980 Production
Total BTU's=64.761 Quads



1980 Consumption
Total BTU's = 75.955 Quads



Source: U.S. Department of Energy, Energy Information Administration, Monthly Energy Review February, 1987.

TABLE 31

ENERGY SUPPLY AND DISPOSITION BALANCE BY YEARS

(QUADRILLION BTU)

	1986p	1985r	1984	1983	1982	1981	1980	1979	1978	1977	1976
SUPPLY											
Production											
Crude Oil & Lease Condensate	18.35	18.99	18.85	18.39	18.31	18.15	18.25	18.10	18.43	17.45	17.26
Natural Gas Plant Liquids	2.17	2.24	2.27	2.18	2.19	2.31	2.25	2.29	2.25	2.33	2.33
Natural Gas	16.49	16.92	17.93	16.53	18.25	19.70	19.91	20.08	19.49	19.57	19.48
Coal	19.48	19.33	19.72	17.25	18.64	18.38	18.60	17.54	14.91	15.76	15.65
Nuclear	4.48	4.15	3.55r	3.20	3.13	3.01	2.74	2.78	3.02	2.70	2.11
Hydro	3.04	2.94	3.31r	3.50	3.26	2.76	2.90	2.93	2.94	2.33	2.98
Other	0.23	0.21	0.17	0.13	0.11	0.13	0.11	0.09	0.07	0.08	0.08
Total Production	**64.25**	**64.78**	**65.81r**	**61.19**	**63.89**	**64.42**	**64.76**	**63.80**	**61.10**	**60.22**	**59.89**
Imports											
Crude Oil	8.75	6.81	7.30	7.08	7.42	9.34	11.19	13.83	13.46	14.03	11.24
Refined Petroleum Products	4.01	3.80	4.13	3.57	3.36	3.30	3.46	4.11	4.36	4.73	4.43
Natural Gas	0.76	0.95	0.85	0.94	0.95	0.92	1.01	1.30	0.99	1.04	0.99
Other	0.55	0.54	0.48	0.44	0.36	0.42	0.31	0.38	0.44	0.30	0.18
Total Imports	**14.07**	**12.10**	**12.76**	**12.03**	**12.09**	**13.97**	**15.97**	**19.62**	**19.25**	**20.09**	**16.84**
Adjustments	(0.38)	1.31	(0.70)	1.00	(0.51)	(0.08)	(1.05)	(1.65)	(0.34)	(1.95)	(0.18)
Total Supply	**77.94**	**78.19**	**77.86r**	**74.22**	**75.47**	**78.32**	**79.68**	**81.77**	**80.02**	**78.36**	**76.55**
DISPOSITION											
Exports											
Coal	2.25	2.44	2.15	2.04	2.79	2.94	2.42	1.75	1.08	1.44	1.60
Other	1.77	1.80	1.65	1.68	1.84	1.38	1.30	1.11	0.86	0.63	0.59
Total Exports	**4.01**	**4.23**	**3.80**	**3.72**	**4.63**	**4.33**	**3.72**	**2.87**	**1.93**	**2.07**	**2.19**
Consumption											
Refined Petroleum Products	31.89	30.92	31.05	30.05	30.23	31.93	34.20	37.12	37.97	37.12	35.17
Natural Gas	16.53	17.85	18.51	17.36	18.51	19.93	20.39	20.67	20.00	19.93	20.35
Coal	17.32	17.48	17.07	15.90	15.32	15.91	15.42	15.04	13.77	13.92	13.58
Nuclear	4.48	4.15	3.55r	3.20	3.13	3.01	2.74	2.78	3.02	2.70	2.11
Hydro	3.50	3.36	3.72r	3.87	3.56	3.11	3.12	3.14	3.14	2.51	3.07
Other	0.22	0.20	0.16	0.12	0.09	0.11	0.08	0.15	0.19	0.10	0.08
Total Consumption	**73.93**	**73.96**	**74.06r**	**70.50**	**70.84**	**73.99**	**75.96**	**78.90**	**78.09**	**76.29**	**74.36**
Total Disposition	**77.94**	**78.19**	**77.86r**	**74.22**	**75.47**	**78.32**	**79.68**	**81.77**	**80.02**	**78.36**	**76.55**

	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966
SUPPLY										
Production										
Crude Oil & Lease Condensate	17.73	18.57	19.49	20.04	20.03	20.40	19.56	19.31	18.65	17.56
Natural Gas Plant Liquids	2.37	2.47	2.57	2.60	2.54	2.51	2.42	2.32	2.18	2.00
Natural Gas	19.64	21.21	22.19	22.21	22.28	21.67	20.45	19.07	17.94	17.01
Coal	14.99	14.07	13.99	14.09	13.19	14.61	13.86	13.61	13.83	13.47
Nuclear	1.90	1.27	0.91	0.58	0.41	0.24	0.15	0.14	0.09	0.06
Hydro	3.15	3.18	2.86	2.86	2.82	2.63	2.65	2.35	2.35	2.06
Other	0.07	0.06	0.05	0.03	0.02	0.02	0.02	0.01	0.01	0.01
Total Production	**59.86**	**60.84**	**62.06**	**62.42**	**61.29**	**62.07**	**59.10**	**56.81**	**55.04**	**52.17**
Imports										
Crude Oil	8.72	7.40	6.89	4.71	3.57	2.81	2.99	2.76	2.40	2.62
Refined Petroleum Products	4.23	5.73	6.58	5.59	4.97	4.66	3.91	3.46	3.15	3.01
Natural Gas	0.98	0.99	1.06	1.05	0.96	0.85	0.75	0.67	0.58	0.50
Other	0.19	0.30	0.21	0.11	0.08	0.07	0.06	0.05	0.05	0.05
Total Imports	**14.11**	**14.41**	**14.73**	**11.46**	**9.58**	**8.39**	**7.71**	**6.93**	**6.19**	**6.18**
Adjustments	(1.07)	(0.48)	(0.46)	(0.48)	(0.82)	(1.37)	(0.47)	(0.71)	(1.52)	(0.83)
Total Supply	**72.91**	**74.77**	**76.33**	**73.40**	**70.06**	**69.10**	**66.34**	**63.03**	**59.71**	**57.52**
DISPOSITION										
Exports										
Coal	1.76	1.62	1.43	1.53	1.55	1.94	1.53	1.38	1.35	1.35
Other	0.60	0.60	0.63	0.61	0.63	0.73	0.62	0.65	0.79	0.50
Total Exports	**2.36**	**2.22**	**2.05**	**2.14**	**2.18**	**2.66**	**2.15**	**2.03**	**2.15**	**1.85**
Consumption										
Refined Petroleum Products	32.73	33.45	34.84	32.95	30.56	29.52	28.34	26.98	25.28	24.40
Natural Gas	19.95	21.73	22.51	22.70	22.47	21.79	20.68	19.21	17.94	17.00
Coal	12.66	12.66	12.97	12.08	11.60	12.26	12.38	12.33	11.91	12.14
Nuclear	1.90	1.27	0.91	0.58	0.41	0.24	0.15	0.14	0.09	0.06
Hydro	3.22	3.31	3.01	2.94	2.86	2.65	2.66	2.34	2.34	2.07
Other	0.09	1.12	0.04	0.01	(0.02)	(0.04)	(0.02)	*	(0.01)	(0.02)
Total Consumption	**70.55**	**72.54**	**74.28**	**71.26**	**67.89**	**66.43**	**64.19**	**61.00**	**57.57**	**55.66**
Total Disposition	**72.91**	**74.77**	**76.33**	**73.40**	**70.06**	**69.10**	**66.34**	**63.03**	**59.71**	**57.52**

Source: U.S. Department of Energy, Energy Information Administration, Annual Energy Review 1986.

**Less than .005 Quadrillion BTU.*

( ) Denotes negative figure. p Preliminary. r Revised.

Note: Total may not equal sum of components due to independent rounding.

TABLE 32
ANNUAL PRODUCTION OF ENERGY RESOURCES BY YEARS
(QUADRILLION BTU)

Year	Coal	Natural Gas*	Natural Gas Plant Liquids	Petroleum**	Hydro	Nuclear	Other†	Total
1986p	**19.48**	**16.49**	**2.17**	**18.35**	**3.04**	**4.48**	**0.23**	**64.25**
1985r	19.33	16.92	2.24	18.99	2.94	4.15	0.21	64.78
1984	19.72	17.93	2.27	18.85	3.31r	3.55r	0.17	65.81r
1983	17.25	16.53	2.18	18.39	3.50	3.20	0.13	61.19
1982	18.64	18.25	2.19	18.31	3.26	3.13	0.10	63.89
1981	18.38	19.70	2.31	18.15	2.76	3.01	0.12	64.42
1980	18.60	19.91	2.25	18.25	2.90	2.74	0.11	64.76
1979	17.54	20.08	2.29	18.10	2.93	2.78	0.09	63.80
1978	14.91	19.49	2.25	18.43	2.94	3.02	0.06	61.10
1977	15.76	19.57	2.33	17.45	2.33	2.70	0.09	60.22
1976	15.65	19.48	2.33	17.26	2.98	2.11	0.08	59.89
1975	14.99	19.64	2.37	17.73	3.15	1.90	0.07	59.86
1974	14.07	21.21	2.47	18.57	3.18	1.27	0.05	60.84
1973	13.99	22.19	2.57	19.49	2.86	0.91	0.04	62.06
1972	14.09	22.21	2.60	20.04	2.86	0.58	0.03	62.42
1971	13.19	22.28	2.54	20.03	2.82	0.41	0.01	61.29
1970	14.61	21.67	2.51	20.40	2.63	0.24	0.01	62.07
1969	13.86	20.45	2.42	19.56	2.65	0.15	0.01	59.10
1968	13.61	19.07	2.32	19.31	2.35	0.14	0.01	56.81
1967	13.83	17.94	2.18	18.65	2.35	0.09	0.01	55.04
1966	13.47	17.01	2.00	17.56	2.06	0.06	‡	52.17

Note: Total may not equal sum of components due to independent rounding.
** Dry market natural gas.*
*** Crude oil and lease condensate.*
† Includes geothermal, wood, waste, wind and solar.
‡ Less than .005 Quadrillion BTU.
p Preliminary. r Revised.
Source: U.S. Department of Energy, Energy Information Administration, Annual Energy Review 1986.

TABLE 33
TOTAL ENERGY CONSUMPTION BY YEARS
(QUADRILLION BTU)

Year	Coal	Natural Gas (Dry)	Petroleum*	Hydro	Nuclear	Other**	Total
1986p	**17.32**	**16.53**	**31.89**	**3.50**	**4.48**	**0.22**	**73.93**
1985r	17.48	17.85	30.92	3.36	4.15	0.20	73.96
1984	17.07	18.51	31.05	3.72r	3.55r	0.16	74.06r
1983	15.90	17.36	30.05	3.87	3.20	0.12	70.50
1982	15.32	18.51	30.23	3.56	3.13	0.08	70.84
1981	15.91	19.93	31.93	3.11	3.01	0.11	73.99
1980	15.42	20.39	34.20	3.12	2.74	0.08	75.96
1979	15.04	20.67	37.12	3.14	2.78	0.15	78.90
1978	13.77	20.00	37.97	3.14	3.02	0.13	78.09
1977	13.92	19.93	37.12	2.51	2.70	0.10	76.29
1976	13.58	20.35	35.17	3.07	2.11	0.08	74.36
1975	12.66	19.95	32.73	3.22	1.90	0.09	70.55
1974	12.66	21.73	33.45	3.31	1.27	0.11	72.54
1973	12.97	22.51	34.84	3.01	0.91	0.04	74.28
1972	12.08	22.70	32.95	2.94	0.58	0.01	71.26
1971	11.60	22.47	30.56	2.86	0.41	(0.02)	67.89
1970	12.26	21.79	29.52	2.65	0.24	(0.04)	66.43
1969	12.38	20.68	28.34	2.66	0.15	(0.02)	64.19
1968	12.33	19.21	26.98	2.34	0.14	0.00	61.00
1967	11.91	17.94	25.28	2.34	0.09	0.00	57.57
1966	12.14	17.00	24.40	2.07	0.06	(0.02)	55.66

Note: Total may not equal sum of components due to independent rounding.
**Refined pretroleum products supplied including natural gas plant liquids and crude oil burned as fuel.*
***Includes geothermal, wood, waste, net imports of coal coke, wind and solar.*
( ) Denotes negative figure.
p Preliminary. r Revised.
Source: U.S. Department of Energy. Energy Information Administration. Annual Energy Review 1986.

TABLE 34

ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES

BY KIND OF FUEL, BY SECTOR*
(QUADRILLION BTU)

	1986p	1985r	1984	1983	1982	1981
Coal						
Residential & Commercial	0.18	0.18	0.21	0.20	0.19	0.17
Industrial	2.62	2.76	2.84	2.49	2.55	3.16
Transportation	**	**	**	**	**	**
Electric Utilities	14.46	14.54	14.02	13.21	12.58	12.58
Total	17.27	17.48	17.07	15.90	15.32	15.91
Natural Gas (Dry)						
Residential & Commercial	6.97	7.09	7.29	7.02r	7.43	7.24
Industrial	6.37	7.09	7.45	6.82	7.12	8.26
Transportation	0.50	0.52	0.55	0.51r	0.61	0.66
Electric Utilities	2.70	3.16	3.22	3.00	3.34	3.77
Total	16.53	17.85	18.51	17.36r	18.51	19.93
Petroleum						
Residential & Commerical	2.57	2.57	2.58	2.50	2.45	2.63
Industrial	7.70	7.70	7.89	7.42	7.80	8.29r
Transportation	20.16	19.56	19.30	18.59	18.42	18.80
Electric Utilities	1.45	1.09	1.29	1.54	1.57	2.20
Total	31.89	30.92	31.05	30.05	30.23	31.93

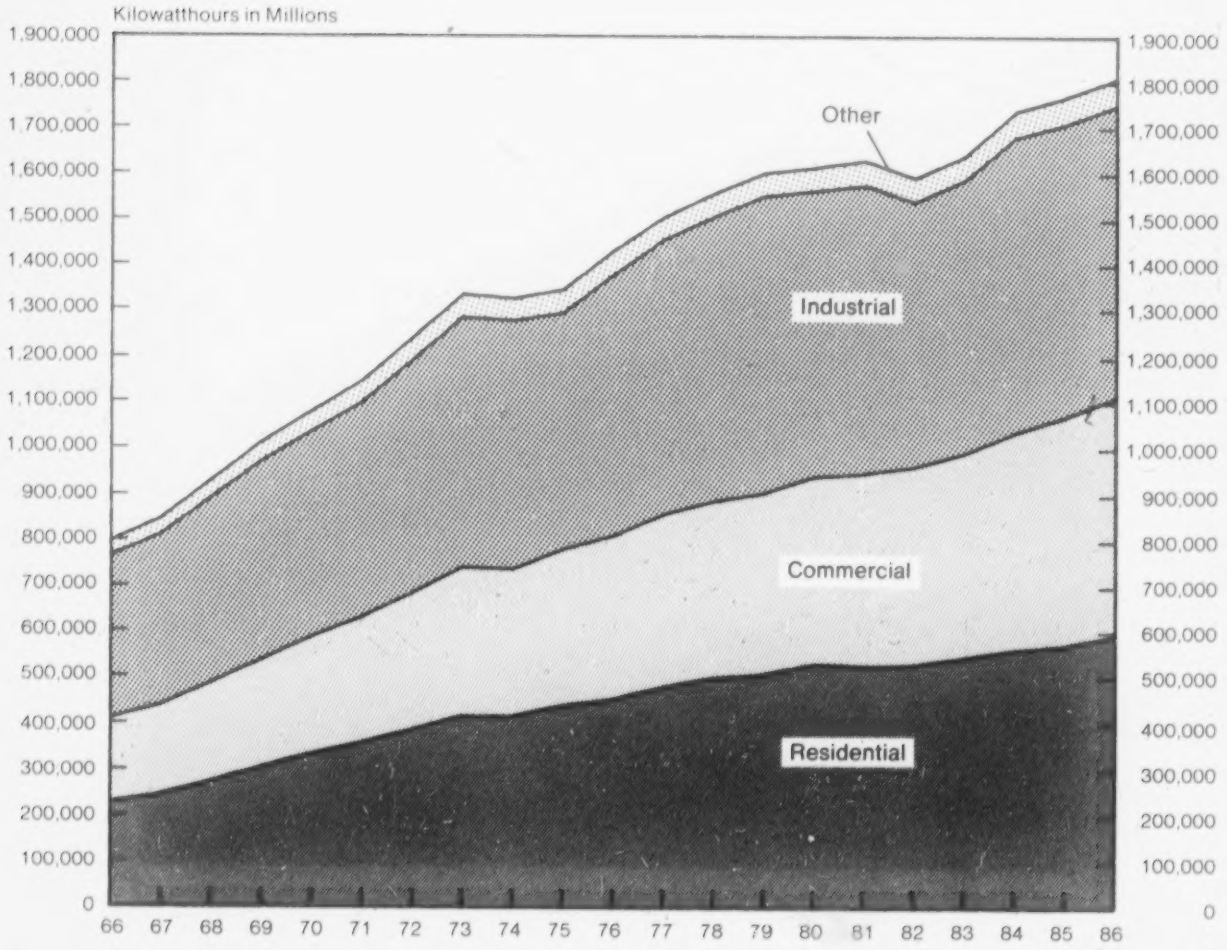
Note: Total may not equal sum of components due to independent rounding.
** Sector data excludes electricity sales and energy losses attributed to electric generation.*
*** Since 1976 the amount of coal consumed by the transportation sector has been negligible.*
p Preliminary. Total consumption by fuels will not agree with Energy Supply and Disposition Balance (Table 31) and Total Energy Consumption (Table 33) due to data revisions.
r Revised.
Source: U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.

ENERGY SALES
SECTION VI

CHART VI-A

SALES TO ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



Based on Table 39, page 44

TABLE 38

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE
KILOWATTHOURS IN MILLIONS

Year	Total Sales	Exports to Canada and Mexico	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1986p	**2,360,127**	**4,816**	**2,355,311**	**820,826**	**630,260**	**817,396**	**14,921**	**62,038**	**4,714**	**5,155**
1985r	2,310,847	4,965	2,305,882	792,875	605,865	820,301	14,644	62,165	4,704	5,328
1984	2,283,143	2,558	2,280,585	782,608	578,083	835,486	14,205	59,894	4,483	5,826
1983	2,163,124	3,337	2,159,787	750,293	545,601	782,984	13,944	57,267	4,300	5,398
1982	2,103,281	3,540	2,099,741	732,678	516,959	770,398	14,236	55,745	4,288	5,438
1981	2,152,506	1,832	2,150,674	730,479	521,698	819,641	14,683	53,737	4,206	6,230
1980	2,130,190	4,096	2,126,094	734,411	524,122	793,812	14,832	48,284	4,275	6,358
1979	2,086,582	2,182	2,084,400	695,996	494,723	817,617	14,792	49,604	4,256	7,412
1978	2,020,004	2,186	2,017,818	679,156	480,748	782,141	14,803	49,509	4,336	7,125
1977	1,953,535	2,744	1,950,791	652,345	469,227	757,168	14,418	46,242	4,212	7,179
1976	1,852,003	2,378	1,849,625	613,072	440,625	725,169	14,413	45,625	4,338	6,383
1975	1,738,107	5,083	1,733,024	586,149	418,069	661,558	13,907	43,625	4,273	5,443
1974	1,703,495	2,726	1,700,769	554,960	392,716	689,435	13,313	40,721	4,258	5,366
1973	1,705,773	2,570	1,703,203	554,171	396,903	687,235	12,836	42,340	4,186	5,532
1972	1,580,466	2,752	1,577,714	511,423	361,859	639,467	12,193	43,190	4,440	5,142
1971	1,469,955	3,514	1,466,441	479,080	333,752	592,700	11,673	39,819	4,537	4,880
1970	1,395,568	4,209	1,391,359	447,795	312,750	572,522	11,183	37,816	4,633	4,660
1969	1,311,008	3,830	1,307,178	407,922	286,686	557,220	10,772	35,861	4,531	4,186
1968	1,206,606	4,285	1,202,321	367,692	265,151	518,834	10,302	32,162	4,540	3,640
1967	1,111,373	4,350	1,107,023	331,525	242,492	486,043	9,863	29,426	4,572	3,102
1966	1,042,158	3,176	1,038,982	306,572	225,878	465,077	9,240	25,922	4,514	1,779

Note: Total may not equal sum of components due to independent rounding.
**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 39

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE
KILOWATTHOURS IN MILLIONS

Year	Total Sales	Sales for Resale†	Total Sales to Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1986p	**1,913,656**	**105,621**	**1,808,035**	**594,001**	**518,602**	**637,147**	**10,346**	**42,948**	**2,261**	**2,729**
1985r	1,871,702	102,773	1,768,929	573,253	498,320	638,513	10,339	43,565	2,252	2,687
1984	1,841,195	104,168	1,737,027	563,703	473,470	643,466	10,379	40,760	2,045	3,204
1983	1,749,915	109,540	1,640,375	546,080	445,300	597,405	10,445	36,396	1,929	2,820
1982	1,701,020	109,796	1,591,224	530,713	431,598	576,380	10,716	36,967	1,924	2,925
1981	1,745,234	116,248	1,628,986	527,119	420,014	628,481	10,918	37,623	1,939	2,892
1980	1,732,553	118,745	1,613,808	532,025	408,265	623,472	10,820	34,449	2,156	2,621
1979	1,719,640	117,408	1,602,232	509,655	394,511	648,031	10,854	34,165	2,103	2,913
1978	1,675,477	118,716	1,556,761	501,409	384,726	620,470	11,042	34,386	2,085	2,643
1977	1,619,820	115,409	1,504,411	481,167	375,903	598,042	10,912	33,208	2,450	2,729
1976	1,530,286	99,496	1,430,790	453,774	355,555	569,134	11,276	34,810	3,930	2,311
1975	1,447,147	101,273	1,345,874	439,496	340,082	515,798	10,868	33,528	4,158	1,944
1974	1,418,958	93,201	1,325,757	416,333	319,706	542,234	10,409	30,876	4,161	2,038
1973	1,417,386	82,990	1,334,396	416,851	323,018	545,912	10,034	32,452	4,086	2,043
1972	1,316,379	76,572	1,239,807	386,561	297,028	507,080	9,581	33,491	4,333	1,733
1971	1,215,614	70,009	1,145,605	358,564	272,703	468,512	9,206	30,618	4,424	1,578
1970	1,142,777	63,032	1,079,745	333,895	254,684	447,664	8,814	28,721	4,520	1,447
1969	1,070,721	58,641	1,012,080	304,497	232,965	433,422	8,441	26,928	4,417	1,410
1968	984,542	55,572	928,970	272,792	215,090	403,468	8,089	23,908	4,424	1,199
1967	890,755	45,334	845,421	244,416	194,772	371,319	7,695	21,726	4,445	1,048
1966	840,093	43,776	796,317	226,727	182,923	354,759	7,299	19,427	4,403	779

Note: Total may not equal sum of components due to independent rounding.
† To non-investor-owned electric utilities and exports.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 40

ENERGY SALES IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE

Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
1986p	**34.9%**	**26.8%**	**34.7%**	**0.6%**	**2.6%**	**0.2%**	**0.2%**
1985r	34.4	26.3	35.6	0.6	2.7	0.2	0.2
1984	34.3	25.4	36.6	0.6	2.6	0.2	0.3
1983	34.7	25.3	36.3	0.6	2.7	0.2	0.2
1982	34.9	24.6	36.7	0.7	2.7	0.2	0.2
1981	34.0	24.2	38.1	0.7	2.5	0.2	0.3
1980	34.5	24.7	37.3	0.7	2.3	0.2	0.3
1979	33.4	23.7	39.2	0.7	2.4	0.2	0.4
1978	33.7	23.8	38.8	0.7	2.4	0.2	0.4
1977	33.4	24.1	38.8	0.7	2.4	0.2	0.4
1976	33.2	23.8	39.2	0.8	2.5	0.2	0.3
1975	33.8	24.1	38.2	0.8	2.5	0.3	0.3
1974	32.6	23.1	40.5	0.8	2.4	0.3	0.3
1973	32.5	23.3	40.4	0.8	2.5	0.2	0.3
1972	32.4	23.0	40.5	0.8	2.7	0.3	0.3
1971	32.7	22.8	40.4	0.8	2.7	0.3	0.3
1970	32.2	22.5	41.2	0.8	2.7	0.3	0.3
1969	31.2	21.9	42.7	0.8	2.7	0.4	0.3
1968	30.6	22.1	43.1	0.8	2.7	0.4	0.3
1967	29.9	21.9	43.9	0.9	2.7	0.4	0.3
1966	29.5	21.7	44.8	0.9	2.5	0.4	0.2

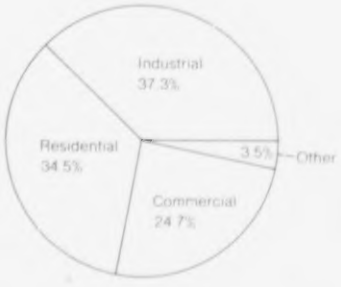
Based on sales data in Table 38. p Preliminary. r Revised.

CHART VI-B

ENERGY SALES

BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
KILOWATTHOURS IN MILLIONS

1980 SALES

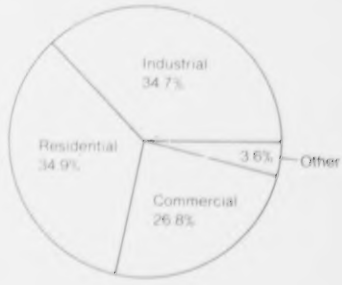


Total Sales = 2,126,094 kWh

1985 SALES

Total Sales=2,305,882kWh

1986 SALES



Total Sales=2,355,311 kWh

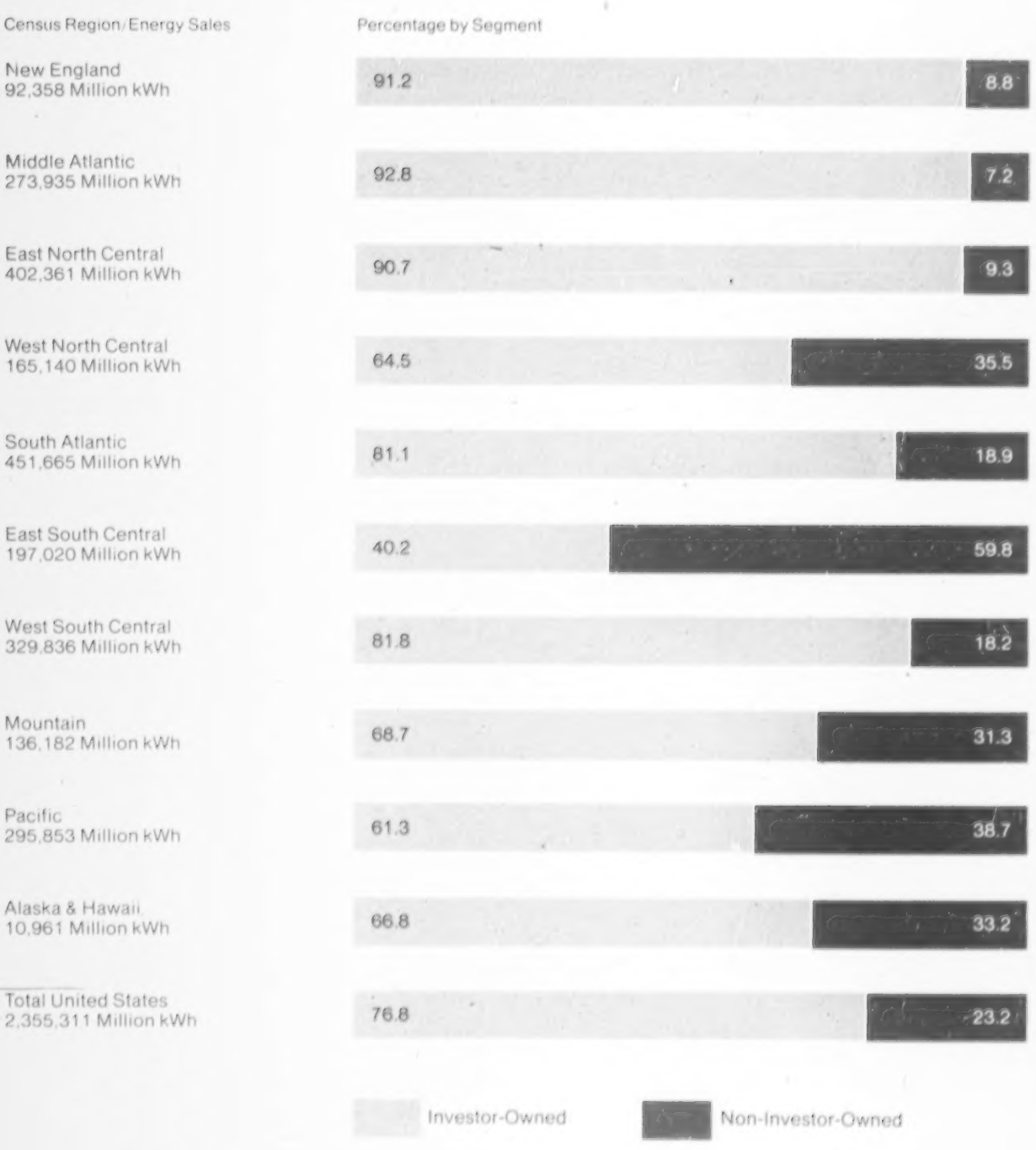
Based on Table 40, as shown above.

CHART VI-C

ENERGY SALES TO ULTIMATE CUSTOMERS

BY INVESTOR-OWNED AND NON-INVESTOR-OWNED ELECTRIC UTILITIES

1986p



p Preliminary
Based on Table 41A, page 47 and Table 42A, page 49

TABLE 41A

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1986p—KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,355,311**	**820,826**	**630,260**	**817,396**	**14,921**	**62,038**	**4,714**	**5,155**
Maine	10,177	3,556	2,251	4,174	61	134	–	*
New Hampshire	7,540	3,080	1,624	2,741	41	55	–	–
Vermont	4,456	1,897	861	1,559	20	119	–	*
Massachusetts	40,023	13,867	15,558	9,683	394	521	–	–
Rhode Island	5,657	2,064	2,034	1,368	73	118	–	–
Connecticut	24,504	9,082	8,886	6,153	201	24	148	10
New England	**92,358**	**33,546**	**31,215**	**25,678**	**790**	**971**	**148**	**10**
New York	115,400	33,805	42,055	29,024	1,092	7,035	2,358	31
New Jersey	56,027	18,103	21,758	15,703	432	2	6	24
Pennsylvania	102,508	34,244	24,787	42,011	541	117	743	66
Middle Atlantic	**273,935**	**86,151**	**88,599**	**86,738**	**2,065**	**7,153**	**3,107**	**122**
Ohio	123,937	35,216	26,233	58,387	660	3,378	46	17
Indiana	59,907	20,484	12,387	26,420	335	231	12	38
Illinois	101,654	30,865	27,298	36,543	714	5,834	398	1
Michigan	74,142	22,947	17,768	32,125	512	735	–	56
Wisconsin	42,721	15,177	10,789	15,962	424	276	–	93
East North Central	**402,361**	**124,689**	**94,475**	**169,437**	**2,646**	**10,454**	**456**	**204**
Minnesota	39,148	13,700	6,676	18,120	265	376	–	12
Iowa	26,282	9,997	5,666	9,911	189	518	–	1
Missouri	47,149	19,604	15,477	11,122	312	615	9	10
North Dakota	6,667	2,945	1,527	1,705	96	391	–	3
South Dakota	5,749	2,786	1,590	1,030	74	269	–	*
Nebraska	16,041	6,287	5,005	4,020	129	535	–	64
Kansas	24,103	8,421	8,434	6,895	162	189	–	2
West North Central	**165,140**	**63,739**	**44,376**	**52,804**	**1,227**	**2,892**	**9**	**92**
Delaware	6,859	2,121	1,813	2,874	31	16	–	4
Maryland	41,935	15,797	9,705	15,846	315	10	187	76
District of Columbia	8,588	1,332	4,345	2,606	94	–	212	–
Virginia	63,283	25,329	16,501	14,498	274	6,671	10	–
West Virginia	20,589	6,974	4,486	9,025	71	31	–	1
North Carolina	76,406	29,609	19,225	26,024	312	1,222	–	15
South Carolina	49,338	16,164	9,553	22,956	129	525	–	11
Georgia	68,386	25,909	17,226	24,496	378	243	134	–
Florida	116,282	57,529	38,734	16,329	526	2,972	73	119
South Atlantic	**451,665**	**180,764**	**121,590**	**134,653**	**2,129**	**11,689**	**616**	**224**
Kentucky	50,473	15,433	7,904	18,923	254	7,899	–	60
Tennessee	68,244	27,304	7,176	33,235	390	52	–	87
Alabama	51,621	18,420	9,121	23,715	309	17	–	39
Mississippi	26,682	10,976	6,261	8,937	164	339	–	4
East South Central	**197,020**	**72,133**	**30,463**	**84,811**	**1,116**	**8,308**	**–**	**190**
Arkansas	22,650	9,372	5,474	7,343	100	361	–	–
Louisiana	59,486	20,358	12,134	23,133	292	1,888	–	1,682
Oklahoma	34,757	13,708	9,682	9,503	140	1,723	–	–
Texas	212,944	72,056	55,602	78,621	924	5,598	–	142
West South Central	**329,836**	**115,493**	**82,893**	**118,600**	**1,456**	**9,570**	**–**	**1,824**
Montana	12,163	3,335	2,671	5,938	74	112	–	32
Idaho	15,798	5,379	4,380	5,966	31	42	–	–
Wyoming	10,604	1,758	2,271	6,467	30	63	–	16
Colorado	26,824	8,918	11,604	5,912	186	205	–	*
New Mexico	11,970	3,174	3,996	3,972	70	707	–	51
Arizona	33,742	12,493	11,127	8,777	296	679	26	345
Utah	13,492	3,984	4,262	4,583	48	612	–	2
Nevada	11,589	4,097	3,129	3,994	84	284	–	*
Mountain	**136,182**	**43,138**	**43,440**	**45,609**	**818**	**2,705**	**26**	**446**
Washington	75,769	26,901	16,338	30,883	255	1,351	19	23
Oregon	35,318	13,163	10,242	11,661	147	89	–	17
California	184,765	57,559	62,920	52,962	2,187	6,802	335	2,001
Pacific	**295,853**	**97,622**	**89,501**	**95,506**	**2,588**	**8,242**	**354**	**2,040**
Alaska	3,929	1,590	1,935	318	29	53	–	2
Hawaii	7,032	1,960	1,773	3,242	57	–	–	–
Alaska & Hawaii	**10,961**	**3,550**	**3,709**	**3,560**	**87**	**53**	**–**	**2**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.
* Less than five hundred thousand kilowatthours.

TABLE 41B
ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY
BY STATE AND CLASS OF SERVICE
YEAR 1985r—KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,305,882**	**792,875**	**605,865**	**820,301**	**14,644**	**62,165**	**4,704**	**5,328**
Maine	9,827	3,421	2,152	4,061	61	131	–	*
New Hampshire	7,101	2,855	1,496	2,660	41	49	–	–
Vermont	4,331	1,858	813	1,522	19	119	–	1
Massachusetts	38,131	13,160	14,587	9,478	391	515	–	–
Rhode Island	5,430	1,971	1,930	1,342	73	114	–	–
Connecticut	23,462	8,639	8,359	6,092	208	25	131	9
New England	**88,282**	**31,905**	**29,337**	**25,153**	**792**	**953**	**131**	**10**
New York	112,864	32,804	39,900	29,662	1,104	7,001	2,362	31
New Jersey	53,828	17,177	20,483	15,695	442	2	5	25
Pennsylvania	100,120	32,657	23,457	42,533	554	114	739	66
Middle Atlantic	**266,812**	**82,638**	**83,839**	**87,890**	**2,099**	**7,117**	**3,106**	**122**
Ohio	124,310	33,981	25,025	61,309	675	3,253	49	17
Indiana	59,210	19,617	11,681	27,252	360	236	12	51
Illinois	99,232	29,962	28,506	33,744	714	5,910	396	1
Michigan	72,139	22,206	16,993	31,539	519	827	–	55
Wisconsin	41,613	14,889	10,571	15,453	345	271	–	84
East North Central	**396,504**	**120,654**	**92,775**	**169,298**	**2,613**	**10,498**	**458**	**208**
Minnesota	38,537	13,345	6,400	18,126	273	383	–	11
Iowa	25,620	9,828	5,448	9,631	194	518	–	1
Missouri	45,052	18,510	14,587	10,996	328	606	15	9
North Dakota	6,766	2,987	1,515	1,789	96	376	–	3
South Dakota	5,619	2,753	1,558	956	75	275	–	*
Nebraska	15,612	6,140	4,821	3,914	127	524	–	86
Kansas	23,547	8,190	8,051	6,940	177	187	–	2
West North Central	**160,752**	**61,753**	**42,380**	**52,352**	**1,271**	**2,869**	**15**	**112**
Delaware	6,343	1,915	1,652	2,722	30	16	–	7
Maryland	39,325	14,318	9,053	15,367	311	10	191	74
District of Columbia	8,214	1,233	4,130	2,534	95	–	222	–
Virginia	57,362	22,473	14,880	13,583	269	6,135	23	–
West Virginia	20,709	6,647	4,298	9,663	70	30	–	1
North Carolina	71,130	26,979	17,780	24,911	304	1,143	–	13
South Carolina	46,257	14,734	8,867	21,566	128	952	–	10
Georgia	63,706	23,559	15,913	23,487	379	237	131	–
Florida	111,011	54,001	36,211	17,264	524	2,845	53	114
South Atlantic	**424,057**	**165,859**	**112,785**	**131,096**	**2,110**	**11,369**	**619**	**219**
Kentucky	50,574	14,609	7,511	18,839	268	9,290	–	57
Tennessee	67,567	25,784	6,672	34,568	387	50	–	105
Alabama	50,128	17,188	8,575	23,976	314	16	–	59
Mississippi	25,857	10,501	6,041	8,820	160	329	–	6
East South Central	**194,126**	**68,082**	**28,799**	**86,204**	**1,129**	**9,685**	**–**	**227**
Arkansas	24,026	9,102	5,326	9,088	99	411	–	–
Louisiana	60,642	20,168	11,946	24,567	289	1,868	–	1,804
Oklahoma	35,412	14,237	9,653	9,590	139	1,794	–	–
Texas	212,598	71,699	54,131	80,288	902	5,441	–	136
West South Central	**332,678**	**115,206**	**81,055**	**123,533**	**1,429**	**9,514**	**–**	**1,940**
Montana	12,070	3,471	2,689	5,689	77	116	–	28
Idaho	16,309	5,718	4,510	6,005	32	44	–	–
Wyoming	10,513	1,833	2,284	6,293	30	59	–	14
Colorado	26,222	8,869	11,476	5,494	185	199	–	*
New Mexico	11,704	3,092	3,875	3,902	66	703	–	66
Arizona	32,402	12,127	10,391	8,679	280	521	27	377
Utah	13,510	3,979	4,165	4,715	49	599	–	2
Nevada	11,255	4,113	3,002	3,799	81	259	–	*
Mountain	**133,986**	**43,202**	**42,391**	**44,577**	**800**	**2,500**	**27**	**488**
Washington	78,794	28,611	16,470	32,233	254	1,176	19	31
Oregon	35,903	13,913	10,092	11,664	146	83	–	6
California	183,383	57,512	62,501	52,830	1,912	6,336	329	1,963
Pacific	**298,080**	**100,036**	**89,063**	**96,727**	**2,311**	**7,594**	**348**	**1,999**
Alaska	3,971	1,661	1,885	325	32	65	–	2
Hawaii	6,635	1,879	1,554	3,145	57	–	–	–
Alaska & Hawaii	**10,605**	**3,540**	**3,440**	**3,470**	**89**	**65**	**–**	**2**

Note: Total may not equal sum of components due to independent rounding.
r Revised.
**Less than five hundred thousand kilowatthours.*

TABLE 42A

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE

YEAR 1986p – KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,808,035**	**594,001**	**518,602**	**637,147**	**10,346**	**42,948**	**2,261**	**2,729**
Maine	9,909	3,419	2,208	4,094	57	131	–	–
New Hampshire	6,960	2,723	1,454	2,690	38	54	–	–
Vermont	3,650	1,511	753	1,263	14	109	–	–
Massachusetts	34,974	11,970	14,519	7,838	339	308	–	–
Rhode Island	5,631	2,048	2,031	1,362	73	118	–	–
Connecticut	23,124	8,719	8,593	5,471	192	–	148	–
New England	**84,248**	**30,390**	**29,559**	**22,718**	**713**	**720**	**148**	**–**
New York	99,125	32,471	41,521	21,849	574	2,625	53	31
New Jersey	55,246	17,731	21,625	15,429	431	–	6	24
Pennsylvania	99,948	32,544	24,306	41,654	528	107	743	66
Middle Atlantic	**254,319**	**82,746**	**87,453**	**78,932**	**1,533**	**2,731**	**802**	**122**
Ohio	115,425	30,745	24,690	56,054	631	3,241	46	17
Indiana	50,735	15,092	10,691	24,464	283	156	12	38
Illinois	95,130	27,229	25,539	35,628	698	5,636	398	1
Michigan	67,379	20,522	15,612	30,113	417	660	–	56
Wisconsin	36,309	11,973	9,907	13,797	365	231	–	36
East North Central	**364,978**	**105,561**	**86,438**	**160,057**	**2,394**	**9,926**	**456**	**147**
Minnesota	27,859	7,049	4,310	16,055	158	275	–	12
Iowa	20,089	6,335	4,816	8,428	172	337	–	1
Missouri	35,142	12,699	13,172	8,760	218	291	–	1
North Dakota	3,541	1,514	832	1,029	48	115	–	3
South Dakota	2,998	1,128	1,028	782	30	30	–	*
Nebraska	–	–	–	–	–	–	–	–
Kansas	16,954	5,790	5,870	5,136	133	23	–	2
West North Central	**106,583**	**34,514**	**30,029**	**40,190**	**760**	**1,070**	**–**	**19**
Delaware	5,574	1,538	1,585	2,420	27	–	–	4
Maryland	39,079	14,507	9,128	15,562	220	–	187	76
District of Columbia	8,588	1,332	4,345	2,606	94	–	212	–
Virginia	56,365	21,589	15,313	12,720	245	6,488	10	–
West Virginia	20,502	6,923	4,470	9,008	70	31	–	1
North Carolina	59,985	20,316	15,472	22,996	224	971	–	6
South Carolina	34,638	9,950	7,451	16,690	94	442	–	11
Georgia	49,277	14,256	13,669	20,878	262	78	134	–
Florida	91,850	44,670	32,328	11,590	376	2,695	73	119
South Atlantic	**366,460**	**135,080**	**103,761**	**114,468**	**1,614**	**10,705**	**616**	**216**
Kentucky	30,779	8,550	5,938	8,264	128	7,888	–	1
Tennessee	1,366	515	251	566	4	28	–	–
Alabama	32,801	10,607	7,016	15,026	150	–	–	4
Mississippi	14,275	5,011	3,958	4,887	100	319	–	–
East South Central	**79,221**	**24,683**	**17,163**	**28,743**	**393**	**8,235**	**–**	**4**
Arkansas	16,365	5,774	4,197	5,993	85	316	–	–
Louisiana	51,963	15,642	10,735	21,864	289	1,751	–	1,682
Oklahoma	27,030	9,505	7,547	8,163	137	1,678	–	–
Texas	174,551	53,792	44,969	71,215	781	3,793	–	1
West South Central	**269,908**	**84,713**	**67,447**	**107,235**	**1,292**	**7,538**	**–**	**1,683**
Montana	7,295	2,225	2,012	2,913	63	69	–	13
Idaho	13,862	4,530	3,780	5,525	25	2	–	–
Wyoming	7,379	1,032	1,129	5,175	20	7	–	16
Colorado	17,537	5,264	6,718	3,323	138	96	–	–
New Mexico	8,570	2,319	2,747	2,880	59	526	–	39
Arizona	18,331	6,640	6,420	4,956	90	156	–	69
Utah	10,437	3,005	2,832	4,011	47	542	–	*
Nevada	10,178	3,861	2,827	3,127	83	279	–	–
Mountain	**93,589**	**28,876**	**30,463**	**31,910**	**525**	**1,677**	**–**	**138**
Washington	21,835	10,771	6,923	4,055	85	*	–	–
Oregon	24,927	9,927	7,939	6,911	131	6	–	13
California	134,641	44,648	49,586	38,596	849	336	240	387
Pacific	**181,404**	**65,347**	**64,449**	**49,562**	**1,066**	**341**	**240**	**399**
Alaska	294	131	67	90	1	5	–	–
Hawaii	7,032	1,960	1,773	3,242	57	–	–	–
Alaska & Hawaii	**7,327**	**2,091**	**1,840**	**3,332**	**59**	**5**	**–**	**–**

Note: Total may not equal sum of components due to independent rounding.

p Preliminary.

** Less than five hundred thousand kilowatthours.*

TABLE 42B

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE

YEAR 1985r – KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,768,929**	**573,253**	**498,320**	**638,513**	**10,339**	**43,565**	**2,252**	**2,687**
Maine	9,576	3,290	2,113	3,987	57	129	–	–
New Hampshire	6,573	2,534	1,341	2,611	39	47	–	–
Vermont	3,543	1,487	707	1,227	14	108	–	–
Massachusetts	33,298	11,352	13,598	7,710	335	302	–	–
Rhode Island	5,406	1,956	1,927	1,337	72	114	–	–
Connecticut	22,139	8,290	8,082	5,439	196	–	131	–
New England	**80,535**	**28,910**	**27,769**	**22,310**	**716**	**699**	**131**	**–**
New York	96,633	31,511	39,390	22,465	586	2,592	56	31
New Jersey	53,086	16,825	20,364	15,427	440	–	5	25
Pennsylvania	97,660	31,036	23,002	42,471	541	104	739	66
Middle Atlantic	**247,379**	**79,372**	**82,756**	**80,063**	**1,567**	**2,697**	**801**	**122**
Ohio	115,913	29,667	23,553	58,859	647	3,120	49	17
Indiana	50,267	14,448	10,076	25,241	304	156	12	51
Illinois	92,874	26,454	26,724	32,886	697	5,715	396	1
Michigan	65,517	19,859	14,941	29,497	419	747	–	55
Wisconsin	35,385	11,746	9,711	13,372	292	229	–	34
East North Central	**359,975**	**102,173**	**85,005**	**159,855**	**2,359**	**9,968**	**458**	**158**
Minnesota	27,515	6,865	4,132	16,060	164	283	–	11
Iowa	18,561	6,228	4,630	8,189	177	336	–	1
Missouri	33,656	12,025	12,421	8,698	233	277	–	1
North Dakota	3,602	1,535	826	1,079	50	109	–	3
South Dakota	2,909	1,115	1,007	726	30	31	–	*
Nebraska	–	–	–	–	–	–	–	–
Kansas	16,638	5,651	5,638	5,179	147	21	–	2
West North Central	**103,881**	**33,419**	**28,655**	**39,931**	**801**	**1,056**	**–**	**18**
Delaware	5,158	1,389	1,444	2,292	27	–	–	7
Maryland	37,237	13,149	8,515	15,092	216	–	191	74
District of Columbia	8,214	1,233	4,130	2,534	95	–	222	–
Virginia	51,061	19,122	13,793	11,917	242	5,965	23	–
West Virginia	20,624	6,598	4,282	9,644	69	30	–	1
North Carolina	55,903	18,486	14,301	21,983	222	906	–	5
South Carolina	32,446	9,083	6,956	15,877	94	425	–	10
Georgia	46,074	12,933	12,619	20,052	265	74	131	–
Florida	87,753	41,987	30,175	12,464	379	2,581	53	114
South Atlantic	**344,469**	**123,981**	**96,213**	**111,856**	**1,608**	**9,982**	**619**	**210**
Kentucky	31,300	8,035	5,624	8,228	137	9,276	–	1
Tennessee	1,333	490	246	564	4	28	–	–
Alabama	31,770	9,815	6,594	15,215	145	–	–	1
Mississippi	13,827	4,796	3,820	4,806	98	309	–	–
East South Central	**78,230**	**23,135**	**16,283**	**28,813**	**384**	**9,613**	**–**	**2**
Arkansas	17,552	5,608	4,083	7,417	83	361	–	–
Louisiana	53,103	15,496	10,568	23,220	287	1,728	–	1,804
Oklahoma	27,515	9,872	7,524	8,237	135	1,747	–	–
Texas	175,042	53,763	43,704	73,080	760	3,734	–	1
West South Central	**273,212**	**84,739**	**65,879**	**111,954**	**1,265**	**7,570**	**–**	**1,806**
Montana	7,184	2,319	2,026	2,694	66	66	–	13
Idaho	14,297	4,815	3,892	5,562	27	2	–	–
Wyoming	7,291	1,076	1,135	5,036	20	9	–	14
Colorado	17,244	5,262	8,655	3,090	138	98	–	–
New Mexico	8,364	2,268	2,662	2,819	55	505	–	54
Arizona	17,590	6,403	5,949	4,895	89	150	–	105
Utah	10,473	3,001	2,767	4,127	48	530	–	1
Nevada	9,855	3,877	2,709	2,934	80	255	–	–
Mountain	**92,298**	**29,022**	**29,795**	**31,157**	**523**	**1,614**	**–**	**188**
Washington	22,418	11,580	6,850	3,900	88	*	–	–
Oregon	25,206	10,474	7,821	6,772	131	6	–	2
California	134,389	44,437	49,675	38,658	840	354	244	181
Pacific	**182,014**	**66,491**	**64,346**	**49,330**	**1,059**	**360**	**244**	**183**
Alaska	301	133	64	98	1	5	–	–
Hawaii	6,635	1,879	1,554	3,145	57	–	–	–
Alaska & Hawaii	**6,936**	**2,012**	**1,619**	**3,243**	**58**	**5**	**–**	**–**

Note: Total may not equal sum of components due to independent rounding.

r Revised.

**Less than five hundred thousand kilowatthours.*

TABLE 43

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY QUARTER AND CLASS OF SERVICE
1981-1986 – KILOWATTHOURS IN MILLIONS

Year – Quarter	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
YEAR – 1986p								
First Quarter	589,849	219,578	149,436	199,026	3,857	15,414	1,261	1,277
Second Quarter	550,656	175,188	150,628	204,131	3,438	14,976	1,106	1,190
Third Quarter	638,487	230,082	176,169	209,824	3,612	16,268	1,136	1,396
Fourth Quarter	576,319	195,979	154,028	204,415	4,014	15,380	1,211	1,291
Total	**2,355,311**	**820,826**	**630,260**	**817,396**	**14,921**	**62,038**	**4,714**	**5,155**
YEAR – 1985r								
First Quarter	586,992	219,633	144,927	200,734	3,835	15,249	1,261	1,354
Second Quarter	542,301	169,611	144,271	206,463	3,531	15,946	1,113	1,368
Third Quarter	617,375	216,280	168,097	211,362	3,411	15,739	1,127	1,358
Fourth Quarter	559,214	187,351	148,570	201,742	3,868	15,232	1,202	1,249
Total	**2,305,882**	**792,875**	**605,865**	**820,301**	**14,644**	**62,165**	**4,704**	**5,328**
YEAR – 1984								
First Quarter	583,026	217,917	140,257	203,628	3,727	14,960	1,215	1,321
Second Quarter	539,133	170,463	136,287	211,638	3,482	14,703	1,062	1,498
Third Quarter	611,181	213,027	161,409	215,244	3,360	15,465	1,083	1,594
Fourth Quarter	547,244	181,201	140,130	204,976	3,635	14,765	1,124	1,413
Total	**2,280,585**	**782,608**	**578,083**	**835,486**	**14,205**	**59,894**	**4,483**	**5,826**
YEAR – 1983								
First Quarter	525,257	193,693	128,741	182,262	3,706	14,282	1,145	1,427
Second Quarter	494,569	159,651	126,364	190,063	3,186	13,050	991	1,262
Third Quarter	606,460	221,371	157,015	208,157	3,349	14,044	1,052	1,471
Fourth Quarter	533,502	175,578	133,481	202,503	3,702	15,890	1,112	1,237
Total	**2,159,787**	**750,293**	**545,601**	**782,984**	**13,944**	**57,267**	**4,300**	**5,398**
YEAR – 1982								
First Quarter	545,490	200,830	128,103	196,143	3,848	14,074	1,089	1,402
Second Quarter	495,898	161,985	122,258	192,608	3,247	13,575	1,018	1,207
Third Quarter	553,878	197,261	141,352	195,161	3,383	14,068	1,174	1,479
Fourth Quarter	504,474	172,601	125,245	186,486	3,757	14,027	1,006	1,350
Total	**2,099,741**	**732,678**	**516,959**	**770,398**	**14,236**	**55,745**	**4,288**	**5,438**
YEAR – 1981								
First Quarter	542,678	195,398	125,692	201,897	4,032	13,161	1,091	1,407
Second Quarter	508,314	159,571	123,517	206,284	3,334	13,135	1,017	1,456
Third Quarter	585,219	204,863	146,610	213,451	3,425	14,049	1,029	1,792
Fourth Quarter	514,463	170,647	125,879	198,009	3,892	13,392	1,069	1,575
Total	**2,150,674**	**730,479**	**521,698**	**819,641**	**14,683**	**53,737**	**4,206**	**6,230**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary r Revised.

TABLE 44

AVERAGE ANNUAL KWH USE PER CUSTOMER

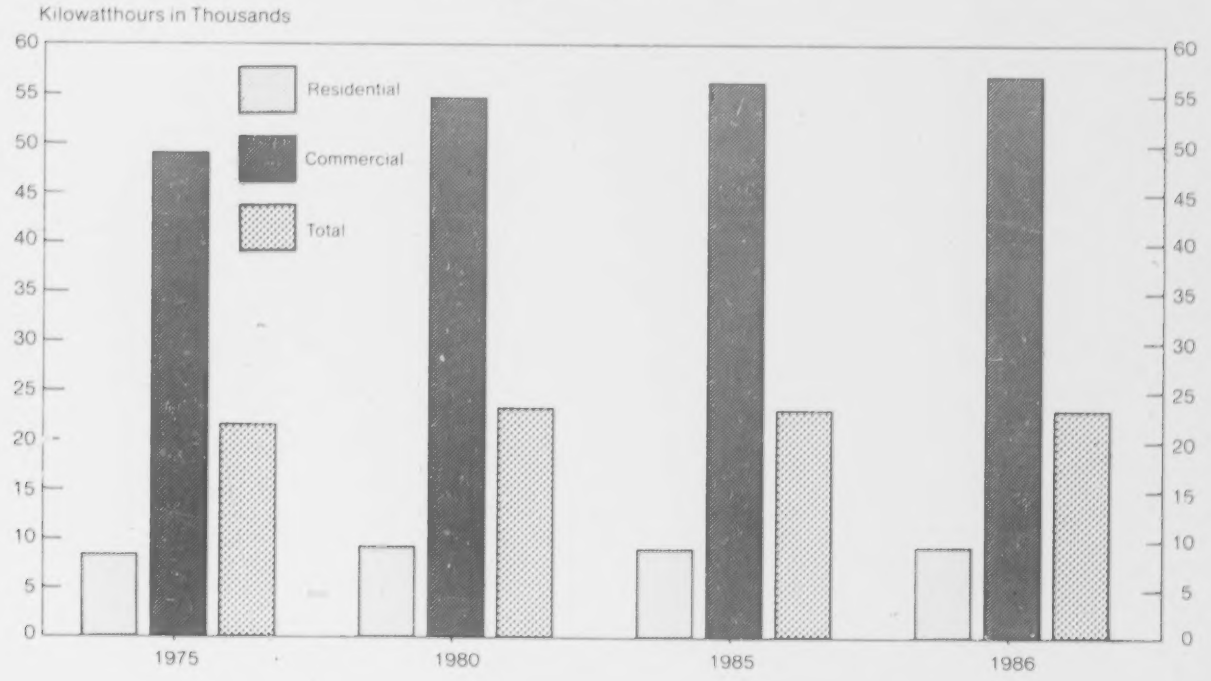
Year	TOTAL ELECTRIC UTILITY INDUSTRY Residential	Commercial	Total Ultimate Customers	Year	INVESTOR-OWNED ELECTRIC UTILITIES Residential	Commercial	Total Ultimate Customers
1986p	**9,038**	**56,930**	**22,925**	**1986p**	**8,627**	**61,445**	**23,201**
1985r	8,906	56,109	22,903	1985r	8,487	60,517	23,149
1984	8,978	55,205	23,152	1984	8,500	59,270	23,173
1983	8,814	53,822	22,479	1983	8,379	57,003	22,293
1982	8,743	52,260	22,197	1982	8,261	56,379	21,940
1981	8,825	53,402	23,026	1981	8,311	55,742	22,753
1980	9,025	54,538	23,167	1980	8,539	55,210	22,949
1979	8,843	53,197	23,481	1979	8,360	54,594	23,287
1978	8,849	53,085	23,315	1978	8,430	54,653	23,197
1977	8,693	52,892	23,052	1977	8,279	54,520	22,938
1976	8,360	50,733	22,361	1976	7,969	52,560	22,263
1975	8,176	48,964	21,417	1975	7,855	50,966	21,305
1974	7,907	46,557	21,448	1974	7,574	48,426	21,343
1973	8,079	47,580	21,955	1973	7,769	49,550	21,989
1972	7,691	44,496	20,964	1972	7,413	46,565	21,002
1971	7,380	41,943	19,956	1971	7,062	43,596	19,917
1970	7,066	39,952	19,380	1970	6,720	41,272	19,167
1969	6,571	36,950	18,563	1969	6,253	38,025	18,305
1968	6,057	34,637	17,445	1968	5,727	35,549	17,159
1967	5,577	32,041	16,384	1967	5,241	32,492	15,930
1966	5,265	30,133	15,678	1966	4,962	30,671	15,287

Based on sales data in Tables 38 and 39, and average number of customers per year. p Preliminary. r Revised.

CHART VI-D

AVERAGE KILOWATTHOURS USED

TOTAL ELECTRIC UTILITY INDUSTRY



Based on Table 44, as shown above.

CUSTOMERS

SECTION VII

TABLE 47

ULTIMATE CUSTOMERS
TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1986p	**103,622,570**	**91,597,158**	**11,179,932**	**501,829**	**160,943**	**180,800**	**27**	**1,881**
1985r	101,579,271	89,819,726	10,920,861	499,728	158,307	178,759	28	1,862
1984	99,371,026	87,938,995	10,565,239	525,692	139,703	199,393	29	1,975
1983	96,985,531	85,842,195	10,266,449	500,215	153,659	219,879	31	3,103
1982	95,250,268	84,371,779	9,976,274	533,635	148,678	216,975	31	2,896
1981	94,011,299	83,304,355	9,847,260	516,996	141,051	197,187	31	4,419
1980	92,653,471	82,153,162	9,698,809	484,652	142,724	168,120	30	5,974
1979	89,771,985	79,620,180	9,386,572	477,874	124,228	158,098	30	5,003
1978	87,667,954	77,775,667	9,148,399	464,637	121,899	152,439	30	4,883
1977	85,590,212	75,923,145	8,943,732	448,009	120,594	149,934	28	4,770
1976	83,613,161	74,161,846	8,750,949	427,403	119,130	148,867	28	4,938
1975	81,844,890	72,570,187	8,591,108	414,665	116,555	147,387	29	4,959
1974	80,102,390	70,949,607	8,472,817	422,736	112,477	139,480	29	5,244
1973	78,461,251	69,438,429	8,361,847	413,383	108,787	133,619	46	5,140
1972	76,150,204	67,314,000	8,200,033	369,952	103,874	157,461	50	4,834
1971	74,265,071	65,650,046	8,002,572	355,967	96,252	155,414	48	4,772
1970	72,484,978	64,017,662	7,865,073	352,993	92,052	152,706	47	4,445
1969	70,929,138	62,598,910	7,744,851	348,648	86,678	145,071	49	4,931
1968	69,716,013	61,439,030	7,706,779	333,650	86,023	146,257	64	4,210
1967	68,167,525	60,033,404	7,579,626	324,222	82,445	143,870	65	3,893
1966	66,909,793	58,826,283	7,536,066	316,098	85,197	141,703	65	4,381

*Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.
p Preliminary. r Revised.

TABLE 48

ULTIMATE CUSTOMERS
INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1986p	**78,717,499**	**69,548,070**	**8,535,188**	**364,294**	**123,525**	**145,957**	**21**	**444**
1985r	77,203,821	68,234,704	8,340,862	363,757	121,395	142,621	22	460
1984	75,709,055	66,987,481	8,066,025	396,304	117,874	140,907	23	441
1983	74,247,765	65,718,130	7,886,857	387,875	115,170	139,233	23	477
1982	72,979,298	64,648,932	7,702,142	378,016	113,251	136,484	23	450
1981	72,037,264	63,820,699	7,579,344	389,646	112,061	135,049	23	442
1980	70,996,563	62,902,588	7,459,959	375,540	123,589	134,595	23	269
1979	69,581,540	61,676,402	7,290,125	372,407	108,149	134,171	23	263
1978	67,922,975	60,216,110	7,106,705	364,123	106,286	129,496	23	232
1977	66,294,706	58,770,646	6,942,201	349,563	105,442	126,611	21	222
1976	64,896,400	57,530,599	6,805,345	329,522	103,754	126,674	22	484
1975	63,650,468	56,409,122	6,690,374	322,429	101,937	126,100	23	483
1974	62,667,061	55,499,145	6,624,061	326,409	97,438	119,531	23	454
1973	61,435,986	54,370,297	6,531,953	324,236	94,682	114,315	24	479
1972	59,804,431	52,868,920	6,422,032	284,733	90,206	138,052	25	463
1971	58,204,164	51,415,155	6,294,907	274,329	86,714	132,573	25	461
1970	56,888,819	50,210,348	6,194,383	270,132	83,443	130,036	24	453
1969	55,714,225	49,134,168	6,111,945	265,331	78,903	123,399	25	454
1968	54,680,477	48,140,270	6,078,790	258,848	78,950	123,136	40	443
1967	53,560,415	47,115,644	5,994,228	255,375	75,419	119,263	41	445
1966	52,567,765	46,151,524	5,981,208	248,267	71,394	114,918	41	413

**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 49

CUSTOMERS IN PERCENT OF TOTAL
TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways*	Inter-departmental*
1986p	**88.3%**	**10.8%**	**0.5%**	**0.2%**	**0.2%**	**0.0%**	**0.0%**
1985r	88.3	10.8	0.5	0.2	0.2	0.0	0.0
1984	88.5	10.6	0.5	0.2	0.2	0.0	0.0
1983	88.5	10.6	0.5	0.2	0.2	0.0	0.0
1982	88.6	10.5	0.6	0.1	0.2	0.0	0.0
1981	88.6	10.5	0.5	0.2	0.2	0.0	0.0
1980	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1979	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1978	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1977	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1976	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1975	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1974	88.6	10.6	0.5	0.1	0.2	0.0	0.0
1973	88.5	10.7	0.5	0.1	0.2	0.0	0.0
1972	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1971	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1970	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1969	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1968	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1967	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1966	87.9	11.3	0.5	0.1	0.2	0.0	0.0

** Less than one-tenth of one percent. p Preliminary. r Revised.*
Based on customer data in Table 47.

TABLE 50A

ULTIMATE CUSTOMERS
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1986p

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**103,622,570**	**91,597,158**	**11,179,932**	**501,829**	**160,943**	**180,800**	**27**	**1,881**
Maine	587,945	525,761	58,647	2,368	1,062	105	–	2
New Hampshire	506,127	442,117	60,453	1,527	1,470	560	–	–
Vermont	268,759	235,929	28,816	1,434	302	2,271	–	7
Massachusetts	2,448,108	2,180,004	249,141	11,722	4,739	2,502	–	–
Rhode Island	406,687	363,715	39,496	2,650	806	30	–	–
Connecticut	1,355,387	1,234,350	112,444	4,791	3,764	31	1	6
New England	**5,573,023**	**4,981,876**	**548,997**	**24,492**	**12,143**	**5,499**	**1**	**15**
New York	6,826,017	6,034,296	756,899	9,394	9,782	15,638	5	3
New Jersey	3,115,955	2,745,147	351,033	12,527	7,223	23	1	1
Pennsylvania	4,961,618	4,436,888	488,089	28,718	7,146	772	4	1
Middle Atlantic	**14,903,590**	**13,216,331**	**1,596,021**	**50,639**	**24,151**	**16,433**	**10**	**5**
Ohio	5,170,374	4,648,367	469,457	36,277	6,174	10,081	2	16
Indiana	2,315,934	2,068,670	222,269	20,124	3,462	1,406	1	2
Illinois	4,648,668	4,213,000	414,650	6,260	2,988	11,765	2	3
Michigan	3,870,912	3,499,892	352,327	13,278	3,207	2,205	–	3
Wisconsin	2,128,274	1,891,741	226,916	4,455	4,232	789	–	141
East North Central	**18,134,162**	**16,321,670**	**1,685,619**	**80,394**	**20,063**	**26,246**	**5**	**165**
Minnesota	1,829,775	1,640,810	173,890	7,882	3,064	4,127	–	2
Iowa	1,294,677	1,131,511	152,511	4,205	1,305	5,142	–	3
Missouri	2,275,549	2,023,701	231,267	11,677	3,536	5,317	1	50
North Dakota	305,418	258,986	41,900	2,735	728	1,066	–	3
South Dakota	319,097	276,276	40,034	868	945	973	–	1
Nebraska	766,743	636,197	122,381	3,204	801	4,157	–	3
Kansas	1,155,320	988,371	152,997	9,951	2,314	1,671	–	16
West North Central	**7,946,579**	**6,955,852**	**914,980**	**40,522**	**12,693**	**22,453**	**1**	**78**
Delaware	279,456	252,856	25,442	669	478	10	–	1
Maryland	1,749,268	1,579,373	163,599	5,442	837	14	2	1
District of Columbia	209,858	184,357	25,295	169	36	–	1	–
Virginia	2,361,513	2,108,552	222,301	5,563	1,909	23,188	–	–
West Virginia	831,876	731,616	88,620	10,174	1,166	297	–	3
North Carolina	2,930,078	2,563,415	342,791	12,446	8,829	2,482	–	115
South Carolina	1,495,260	1,308,653	175,480	4,958	3,456	2,699	–	14
Georgia	2,659,574	2,380,960	248,803	21,389	5,987	2,434	1	–
Florida	5,842,532	5,180,592	619,097	25,598	5,400	11,841	1	3
South Atlantic	**18,359,415**	**16,290,374**	**1,911,428**	**86,408**	**28,098**	**42,965**	**5**	**137**
Kentucky	1,593,121	1,410,218	163,626	6,758	4,415	8,093	–	11
Tennessee	2,117,722	1,878,934	219,695	16,533	939	1,602	–	19
Alabama	1,765,813	1,555,123	198,564	8,773	2,247	1,095	–	11
Mississippi	1,082,587	945,922	126,901	5,115	874	3,774	–	1
East South Central	**6,559,243**	**5,790,197**	**708,786**	**37,179**	**8,475**	**14,564**	**–**	**42**
Arkansas	1,086,278	951,478	112,642	18,234	908	3,016	–	–
Louisiana	1,820,605	1,602,900	187,737	18,479	2,349	9,138	–	2
Oklahoma	1,542,684	1,333,125	184,779	14,594	1,185	9,001	–	–
Texas	7,195,371	6,238,577	867,008	60,110	3,963	25,579	–	134
West South Central	**11,644,938**	**10,126,080**	**1,352,166**	**111,417**	**8,405**	**46,734**	**–**	**136**
Montana	403,533	338,994	58,472	2,582	3,094	151	–	240
Idaho	452,820	383,333	67,184	1,619	568	116	–	–
Wyoming	246,954	201,755	41,211	3,356	409	219	–	4
Colorado	1,541,772	1,340,566	197,561	1,828	1,151	662	–	4
New Mexico	631,479	539,491	85,892	4,932	186	910	–	68
Arizona	1,452,158	1,286,916	149,599	4,884	8,771	1,971	1	16
Utah	602,628	536,963	56,106	7,389	1,802	354	–	14
Nevada	450,900	390,919	59,021	508	337	114	–	1
Mountain	**5,782,244**	**5,018,937**	**715,046**	**27,098**	**16,318**	**4,497**	**1**	**347**
Washington	2,019,788	1,796,316	213,521	6,239	3,553	144	1	14
Oregon	1,226,643	1,068,647	154,900	1,854	1,123	108	–	11
California	10,927,370	9,561,105	1,306,529	34,739	23,667	398	3	929
Pacific	**14,173,801**	**12,426,068**	**1,674,950**	**42,832**	**28,343**	**650**	**4**	**954**
Alaska	208,012	178,551	27,775	196	729	759	–	2
Hawaii	337,563	291,222	44,164	652	1,525	–	–	–
Alaska & Hawaii	**545,575**	**469,773**	**71,939**	**848**	**2,254**	**759**	**–**	**2**

p Preliminary.

TABLE 50B

ULTIMATE CUSTOMERS
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
AT DECEMBER 31, 1985r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**101,579,271**	**89,819,726**	**10,920,861**	**499,728**	**158,307**	**178,759**	**28**	**1,862**
Maine	572,089	506,519	61,862	2,399	1,201	107	–	1
New Hampshire	477,423	416,397	55,619	1,463	1,965	1,979	–	–
Vermont	262,119	228,650	29,228	1,666	305	2,267	–	3
Massachusetts	2,400,006	2,142,857	238,265	11,618	4,721	2,545	–	–
Rhode Island	398,308	356,972	37,922	2,588	796	30	–	–
Connecticut	1,325,646	1,208,193	108,835	4,834	3,747	30	1	6
New England	**5,435,591**	**4,859,588**	**531,731**	**24,568**	**12,735**	**6,958**	**1**	**10**
New York	6,737,337	5,968,385	734,014	10,016	9,813	15,101	5	3
New Jersey	3,051,560	2,692,144	339,649	12,567	7,175	23	1	1
Pennsylvania	4,897,041	4,381,899	477,512	29,760	7,074	790	4	2
Middle Atlantic	**14,685,938**	**13,042,428**	**1,551,175**	**52,343**	**24,062**	**15,914**	**10**	**6**
Ohio	5,116,501	4,602,922	461,528	35,654	6,246	10,129	2	20
Indiana	2,288,447	2,044,521	219,525	19,661	3,372	1,365	1	2
Illinois	4,609,368	4,176,346	412,718	5,720	2,936	11,643	2	3
Michigan	3,822,645	3,459,813	344,719	12,936	3,008	2,166	–	3
Wisconsin	2,102,672	1,870,395	223,524	4,311	3,551	764	–	127
East North Central	**17,939,633**	**16,153,997**	**1,662,014**	**78,282**	**19,113**	**26,067**	**5**	**155**
Minnesota	1,806,620	1,620,241	171,733	7,526	3,038	4,080	–	2
Iowa	1,292,120	1,129,867	151,626	4,239	1,300	5,085	–	3
Missouri	2,232,860	1,987,093	225,747	11,383	3,426	5,161	1	49
North Dakota	305,106	258,856	41,793	2,682	727	1,045	–	3
South Dakota	316,361	273,845	39,760	853	939	963	–	1
Nebraska	757,758	628,114	121,449	3,267	624	4,301	–	3
Kansas	1,137,873	973,408	150,297	10,346	2,211	1,599	–	12
West North Central	**7,848,698**	**6,871,424**	**902,405**	**40,296**	**12,265**	**22,234**	**1**	**73**
Delaware	269,325	244,282	23,893	702	437	10	–	1
Maryland	1,696,416	1,533,026	157,334	5,204	835	14	2	1
District of Columbia	206,828	181,710	24,916	166	35	–	1	–
Virginia	2,284,308	2,042,502	211,920	5,553	1,824	22,508	1	–
West Virginia	825,834	727,077	87,236	10,068	1,145	305	–	3
North Carolina	2,827,871	2,474,084	329,900	12,306	9,031	2,438	–	112
South Carolina	1,455,237	1,274,791	169,381	4,910	3,478	2,663	–	14
Georgia	2,576,417	2,308,738	238,119	21,349	5,850	2,360	1	–
Florida	5,609,325	4,982,513	585,947	24,628	5,046	11,187	1	3
South Atlantic	**17,751,561**	**15,768,723**	**1,828,646**	**84,886**	**27,681**	**41,485**	**6**	**134**
Kentucky	1,573,256	1,393,837	160,414	6,781	4,315	7,898	–	11
Tennessee	2,062,615	1,833,273	211,194	15,726	868	1,535	–	19
Alabama	1,727,946	1,524,410	191,693	8,510	2,253	1,069	–	11
Mississippi	1,068,589	934,281	124,891	4,969	809	3,638	–	1
East South Central	**6,432,406**	**5,685,801**	**688,192**	**35,986**	**8,245**	**14,140**	**–**	**42**
Arkansas	1,071,983	938,723	110,942	18,037	1,009	3,272	–	–
Louisiana	1,821,723	1,603,433	187,119	20,042	2,314	8,813	–	2
Oklahoma	1,552,976	1,342,510	185,213	14,649	1,182	9,422	–	–
Texas	7,092,252	6,143,554	859,365	61,088	3,617	24,500	–	128
West South Central	**11,538,934**	**10,028,220**	**1,342,639**	**113,816**	**8,122**	**46,007**	**–**	**130**
Montana	401,899	338,449	57,469	2,569	3,009	151	–	252
Idaho	449,597	380,933	66,344	1,629	568	117	–	–
Wyoming	244,940	200,459	40,404	3,428	419	226	–	4
Colorado	1,495,518	1,299,311	192,771	1,560	1,171	702	–	3
New Mexico	608,430	519,919	82,505	4,901	176	858	–	71
Arizona	1,380,441	1,221,937	143,173	5,046	8,547	1,721	1	16
Utah	588,316	524,496	54,566	7,186	1,729	326	–	13
Nevada	428,499	372,026	55,538	479	340	115	–	1
Mountain	**5,597,640**	**4,857,536**	**692,770**	**26,798**	**15,959**	**4,216**	**1**	**360**
Washington	1,974,651	1,759,005	206,165	5,544	3,495	415	1	26
Oregon	1,211,872	1,056,904	151,915	1,795	1,115	133	–	10
California	10,620,598	9,268,809	1,292,681	34,476	23,283	432	3	914
Pacific	**13,807,121**	**12,084,718**	**1,650,761**	**41,815**	**27,983**	**980**	**4**	**950**
Alaska	211,342	182,174	27,480	199	729	758	–	2
Hawaii	330,407	285,117	43,048	739	1,503	–	–	–
Alaska & Hawaii	**541,749**	**467,291**	**70,528**	**938**	**2,232**	**758**	**–**	**2**

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TABLE 51A

ULTIMATE CUSTOMERS
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1986p

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**78,717,499**	**69,548,070**	**8,535,188**	**364,294**	**123,525**	**145,957**	**21**	**444**
Maine	562,527	503,290	55,878	2,235	1,038	86	–	–
New Hampshire	444,515	387,663	53,381	1,466	1,452	553	–	–
Vermont	208,766	182,741	22,883	670	268	2,204	–	–
Massachusetts	2,140,504	1,903,959	221,590	7,967	4,680	2,308	–	–
Rhode Island	403,289	360,665	39,159	2,631	805	29	–	–
Connecticut	1,296,537	1,182,235	105,908	4,650	3,743	–	1	–
New England	**5,056,138**	**4,520,553**	**498,799**	**19,619**	**11,986**	**5,180**	**1**	**–**
New York	6,675,117	5,900,839	741,300	7,853	9,684	15,434	4	3
New Jersey	3,058,360	2,693,385	345,489	12,266	7,218	–	1	1
Pennsylvania	4,728,637	4,221,135	472,471	28,260	6,322	444	4	1
Middle Atlantic	**14,462,114**	**12,815,359**	**1,559,260**	**48,379**	**23,224**	**15,878**	**9**	**5**
Ohio	3,974,778	3,568,656	364,551	26,517	5,606	9,430	2	16
Indiana	1,773,902	1,573,590	179,407	17,283	2,689	930	1	2
Illinois	4,257,471	3,854,252	384,746	5,371	2,610	10,487	2	3
Michigan	3,439,459	3,108,881	314,563	12,062	2,403	1,547	–	3
Wisconsin	1,765,170	1,576,542	181,717	2,579	3,677	628	–	27
East North Central	**15,210,780**	**13,681,921**	**1,424,984**	**63,812**	**16,985**	**23,022**	**5**	**51**
Minnesota	1,115,445	985,560	118,961	5,805	2,124	2,993		
Iowa	931,589	800,181	123,272	2,394	880	4,859	–	3
Missouri	1,514,369	1,334,188	167,004	7,949	2,102	3,089	–	37
North Dakota	195,758	164,907	28,442	1,427	390	590	–	2
South Dakota	169,998	143,669	25,296	430	281	321	–	1
Nebraska	–	–	–	–	–	–	–	–
Kansas	758,611	666,545	83,287	7,555	1,004	204	–	16
West North Central	**4,685,770**	**4,095,050**	**546,262**	**25,560**	**6,781**	**12,056**	**–**	**61**
Delaware	204,348	184,305	19,428	413	201	–	–	1
Maryland	1,618,709	1,460,265	152,559	5,124	758	–	2	1
District of Columbia	209,858	184,357	25,295	169	36	–	1	–
Virginia	1,999,660	1,781,993	190,808	3,314	1,764	21,781	–	–
West Virginia	823,875	724,600	87,701	10,121	1,153	297	–	3
North Carolina	1,991,357	1,710,519	262,878	10,126	6,260	1,560	–	14
South Carolina	917,136	785,424	124,530	3,365	2,245	1,558	–	14
Georgia	1,547,521	1,358,934	173,694	12,351	1,917	624	1	–
Florida	4,504,655	3,997,105	471,365	21,157	4,655	10,369	1	3
South Atlantic	**13,817,119**	**12,187,502**	**1,508,258**	**66,140**	**18,989**	**36,189**	**5**	**36**
Kentucky	924,154	800,111	108,287	4,362	3,898	7,495	–	1
Tennessee	36,557	32,652	3,620	128	119	38	–	–
Alabama	1,070,678	934,798	130,540	4,725	614	–	–	1
Mississippi	505,545	431,209	67,525	3,854	478	2,479	–	–
East South Central	**2,536,934**	**2,198,770**	**309,972**	**13,069**	**5,109**	**10,012**	**–**	**2**
Arkansas	679,054	585,409	74,200	17,144	506	1,795	–	–
Louisiana	1,385,087	1,215,606	144,599	13,934	2,219	8,727	–	2
Oklahoma	1,047,136	909,020	115,944	12,752	1,101	8,319	–	–
Texas	5,121,345	4,445,311	598,270	52,275	3,254	22,234	–	1
West South Central	**8,232,622**	**7,155,346**	**933,013**	**96,105**	**7,080**	**41,075**	**–**	**3**
Montana	297,407	249,385	42,406	2,506	2,772	123	–	215
Idaho	377,650	318,768	56,981	1,352	503	46	–	–
Wyoming	156,568	130,982	23,394	1,955	161	72	–	4
Colorado	997,602	878,074	118,630	144	496	258	–	–
New Mexico	443,301	387,126	50,976	4,256	81	820	–	42
Arizona	829,456	731,080	92,695	3,919	839	922	–	1
Utah	463,756	416,219	38,665	7,163	1,643	63	–	3
Nevada	424,309	369,564	54,141	484	103	17	–	–
Mountain	**3,990,049**	**3,481,198**	**477,888**	**21,779**	**6,598**	**2,321**	**–**	**265**
Washington	918,495	819,305	94,805	2,917	1,467	1	–	–
Oregon	968,659	843,474	122,706	1,414	995	68	–	2
California	8,486,414	7,445,923	1,012,952	4,727	22,765	27	1	19
Pacific	**10,373,568**	**9,108,702**	**1,230,463**	**9,058**	**25,227**	**96**	**1**	**21**
Alaska	14,842	12,447	2,125	121	21	128	–	–
Hawaii	337,563	291,222	44,164	652	1,525	–	–	–
Alaska & Hawaii	**352,405**	**303,669**	**46,289**	**773**	**1,546**	**128**	**–**	**–**

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TABLE 51B

ULTIMATE CUSTOMERS
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
AT DECEMBER 31, 1985r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**77,203,821**	**68,234,704**	**8,340,862**	**363,757**	**121,395**	**142,621**	**22**	**460**
Maine	547,391	484,755	59,242	2,268	1,037	89	–	–
New Hampshire	418,504	365,870	49,299	1,395	1,454	486	–	–
Vermont	203,578	178,543	21,896	682	269	2,188	–	–
Massachusetts	2,096,445	1,869,357	212,010	8,064	4,662	2,352	–	–
Rhode Island	395,004	354,005	37,606	2,569	795	29	–	–
Connecticut	1,267,843	1,156,850	102,582	4,683	3,727	–	1	–
New England	**4,928,765**	**4,409,380**	**482,635**	**19,661**	**11,944**	**5,144**	**1**	**–**
New York	6,587,445	5,836,142	718,870	7,807	9,717	14,902	4	3
New Jersey	2,994,862	2,641,181	334,201	12,308	7,170	–	1	1
Pennsylvania	4,666,816	4,168,573	462,233	29,284	6,256	464	4	2
Middle Atlantic	**14,249,123**	**12,645,896**	**1,515,304**	**49,399**	**23,143**	**15,366**	**9**	**6**
Ohio	3,932,417	3,532,798	358,322	26,121	5,678	9,476	2	20
Indiana	1,752,119	1,554,491	177,167	16,885	2,649	924	1	2
Illinois	4,221,463	3,820,414	383,201	4,910	2,561	10,372	2	3
Michigan	3,395,148	3,072,099	307,523	11,749	2,239	1,535	–	3
Wisconsin	1,743,869	1,558,606	179,079	2,477	3,060	621	–	26
East North Central	**15,045,016**	**13,538,408**	**1,405,292**	**62,142**	**16,187**	**22,928**	**5**	**54**
Minnesota	1,101,326	973,145	117,578	5,537	2,108	2,956	–	2
Iowa	929,641	798,915	122,625	2,413	880	4,805	–	3
Missouri	1,485,877	1,310,042	163,118	7,676	2,024	2,981	–	36
North Dakota	195,916	165,068	28,465	1,409	395	577	–	2
South Dakota	168,580	142,410	25,152	423	279	315	–	1
Nebraska	–	–	–	–	–	–	–	–
Kansas	746,836	656,112	81,682	7,877	956	197	–	12
West North Central	**4,628,176**	**4,045,692**	**538,620**	**25,335**	**6,642**	**11,831**	**–**	**56**
Delaware	197,091	178,212	18,258	436	184	–	–	1
Maryland	1,569,645	1,417,286	146,700	4,900	756	–	2	1
District of Columbia	206,828	181,710	24,916	166	35	–	1	–
Virginia	1,932,808	1,724,931	181,740	3,314	1,683	21,139	1	–
West Virginia	817,859	720,073	86,330	10,016	1,132	305	–	3
North Carolina	1,921,202	1,649,989	253,130	9,978	6,547	1,544	–	14
South Carolina	896,155	768,548	120,426	3,343	2,290	1,534	–	14
Georgia	1,500,483	1,319,241	166,413	12,346	1,884	598	1	–
Florida	4,323,757	3,843,087	445,933	20,574	4,349	9,810	1	3
South Atlantic	**13,365,828**	**11,803,077**	**1,443,846**	**65,073**	**18,860**	**34,930**	**6**	**36**
Kentucky	912,005	790,589	105,821	4,463	3,811	7,320	–	1
Tennessee	35,941	32,095	3,560	124	121	41	–	–
Alabama	1,050,682	918,777	126,644	4,619	641	–	–	1
Mississippi	500,381	427,114	66,645	3,782	465	2,375	–	–
East South Central	**2,499,009**	**2,168,575**	**302,670**	**12,988**	**5,038**	**9,736**	**–**	**2**
Arkansas	670,206	577,782	73,180	16,989	506	1,749	–	–
Louisiana	1,387,089	1,216,864	144,401	15,220	2,187	8,415	–	2
Oklahoma	1,056,763	917,269	116,658	12,811	1,096	8,729	–	–
Texas	5,060,371	4,388,736	594,503	53,001	2,874	21,256	–	1
West South Central	**8,174,429**	**7,100,651**	**928,942**	**98,021**	**6,663**	**40,149**	**–**	**3**
Montana	296,282	249,058	41,681	2,494	2,699	123	–	227
Idaho	375,030	316,936	56,190	1,354	503	47	–	–
Wyoming	155,505	130,458	22,806	1,986	172	79	–	4
Colorado	966,156	851,296	114,018	76	485	281	–	–
New Mexico	429,070	374,714	49,218	4,238	79	773	–	48
Arizona	793,300	698,026	89,496	4,022	825	930	–	1
Utah	453,498	407,268	37,639	6,968	1,574	46	–	3
Nevada	403,003	351,533	50,897	455	101	17	–	–
Mountain	**3,871,844**	**3,379,289**	**461,945**	**21,593**	**6,438**	**2,296**	**–**	**283**
Washington	895,400	799,701	91,429	2,833	1,436	1	–	–
Oregon	956,457	833,854	120,166	1,357	1,009	70	–	1
California	8,244,609	7,212,617	1,004,925	4,494	22,511	42	1	19
Pacific	**10,096,466**	**8,846,172**	**1,216,520**	**8,684**	**24,956**	**113**	**1**	**20**
Alaska	14,758	12,447	2,040	122	21	128	–	–
Hawaii	330,407	285,117	43,048	739	1,503	–	–	–
Alaska & Hawaii	**345,165**	**297,564**	**45,088**	**861**	**1,524**	**128**	**–**	**–**

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TABLE 52A

AVERAGE NUMBER OF CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE – YEAR 1986p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**102,737,967**	**90,817,769**	**11,070,873**
Maine	578,056	514,001	60,476
New Hampshire	495,574	433,241	58,825
Vermont	266,760	234,365	28,370
Massachusetts	2,424,559	2,160,221	245,234
Rhode Island	402,485	360,260	38,762
Connecticut	1,340,249	1,220,858	110,777
New England	**5,507,683**	**4,922,946**	**542,444**
New York	6,783,567	6,001,786	747,046
New Jersey	3,087,684	2,722,030	345,849
Pennsylvania	4,930,665	4,409,968	484,151
Middle Atlantic	**14,801,916**	**13,133,784**	**1,577,046**
Ohio	5,144,149	4,625,399	466,259
Indiana	2,302,530	2,056,541	221,148
Illinois	4,626,835	4,192,217	413,742
Michigan	3,846,542	3,479,130	348,864
Wisconsin	2,115,897	1,881,119	225,363
East North Central	**18,035,953**	**16,234,406**	**1,675,376**
Minnesota	1,819,706	1,631,530	173,286
Iowa	1,292,595	1,129,834	152,059
Missouri	2,258,122	2,008,565	229,086
North Dakota	304,984	258,570	41,888
South Dakota	318,344	275,495	40,075
Nebraska	763,085	632,962	122,053
Kansas	1,146,670	980,489	152,068
West North Central	**7,903,506**	**6,917,445**	**910,515**
Delaware	277,168	250,866	25,142
Maryland	1,724,922	1,557,935	160,786
District of Columbia	208,255	182,924	25,125
Virginia	2,326,738	2,078,417	218,006
West Virginia	827,593	726,067	87,902
North Carolina	2,901,406	2,538,067	339,205
South Carolina	1,485,991	1,301,091	173,744
Georgia	2,627,766	2,354,194	243,788
Florida	5,725,166	5,077,457	605,710
South Atlantic	**18,105,005**	**16,069,018**	**1,879,408**
Kentucky	1,587,629	1,405,433	162,801
Tennessee	2,098,993	1,863,219	216,967
Alabama	1,750,335	1,542,350	195,879
Mississippi	1,078,015	942,300	126,069
East South Central	**6,514,972**	**5,753,302**	**701,716**
Arkansas	1,083,522	947,384	112,319
Louisiana	1,822,695	1,604,285	187,883
Oklahoma	1,548,558	1,338,179	185,468
Texas	7,179,313	6,221,509	867,616
West South Central	**11,634,088**	**10,111,357**	**1,353,286**
Montana	403,183	337,935	58,227
Idaho	451,552	381,978	66,186
Wyoming	247,052	201,925	41,080
Colorado	1,515,314	1,322,413	189,285
New Mexico	623,257	532,083	85,051
Arizona	1,408,484	1,246,227	146,778
Utah	596,338	530,867	55,592
Nevada	440,508	381,952	57,603
Mountain	**5,685,688**	**4,935,380**	**699,802**
Washington	2,004,528	1,780,121	214,474
Oregon	1,223,314	1,063,190	157,016
California	10,779,081	9,429,892	1,288,371
Pacific	**14,006,923**	**12,273,203**	**1,659,861**
Alaska	208,530	179,039	27,805
Hawaii	333,703	287,889	43,614
Alaska & Hawaii	**542,233**	**466,928**	**71,419**

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TABLE 52B

AVERAGE NUMBER OF CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE – YEAR 1985r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**100,678,766**	**89,030,174**	**10,798,056**
Maine	566,077	501,228	61,106
New Hampshire	468,856	409,073	54,365
Vermont	259,781	226,727	28,777
Massachusetts	2,375,602	2,122,272	234,565
Rhode Island	395,061	354,301	37,387
Connecticut	1,312,902	1,196,723	107,602
New England	**5,378,279**	**4,810,324**	**523,802**
New York	6,698,827	5,937,053	717,458
New Jersey	3,024,442	2,668,586	336,095
Pennsylvania	4,871,617	4,360,372	473,639
Middle Atlantic	**14,594,886**	**12,966,011**	**1,527,192**
Ohio	5,094,728	4,584,338	458,107
Indiana	2,278,058	2,035,728	218,311
Illinois	4,596,778	4,166,539	409,989
Michigan	3,802,819	3,443,155	341,696
Wisconsin	2,090,753	1,860,487	221,547
East North Central	**17,863,136**	**16,090,247**	**1,650,250**
Minnesota	1,796,115	1,610,875	170,740
Iowa	1,290,007	1,128,535	150,801
Missouri	2,216,683	1,972,870	223,869
North Dakota	303,679	257,773	41,483
South Dakota	315,527	273,060	39,721
Nebraska	754,618	625,389	121,095
Kansas	1,129,412	965,986	149,288
West North Central	**7,806,041**	**6,834,488**	**896,997**
Delaware	266,488	241,785	23,557
Maryland	1,674,684	1,513,867	154,871
District of Columbia	205,623	180,584	24,838
Virginia	2,251,116	2,013,553	207,984
West Virginia	825,042	726,858	86,714
North Carolina	2,799,605	2,450,136	325,670
South Carolina	1,443,349	1,264,887	167,483
Georgia	2,541,764	2,279,095	233,164
Florida	5,499,889	4,886,300	574,104
South Atlantic	**17,507,560**	**15,557,065**	**1,798,385**
Kentucky	1,565,848	1,387,174	159,312
Tennessee	2,044,301	1,818,170	208,034
Alabama	1,713,721	1,512,373	189,629
Mississippi	1,061,911	928,414	124,115
East South Central	**6,385,781**	**5,646,131**	**681,090**
Arkansas	1,068,479	934,113	110,333
Louisiana	1,818,682	1,601,279	186,056
Oklahoma	1,550,999	1,341,764	184,175
Texas	7,015,872	6,074,133	851,611
West South Central	**11,454,032**	**9,951,289**	**1,332,175**
Montana	400,995	337,033	57,077
Idaho	448,031	378,676	65,893
Wyoming	244,695	199,950	40,592
Colorado	1,480,145	1,286,227	190,456
New Mexico	599,323	512,081	81,241
Arizona	1,327,165	1,172,299	139,360
Utah	578,690	515,249	53,917
Nevada	420,158	364,765	54,453
Mountain	**5,499,202**	**4,766,280**	**682,989**
Washington	1,958,005	1,741,013	207,462
Oregon	1,208,781	1,051,611	154,119
California	10,484,944	9,151,164	1,273,953
Pacific	**13,651,730**	**11,943,788**	**1,635,534**
Alaska	211,223	182,266	27,270
Hawaii	326,896	282,285	42,372
Alaska & Hawaii	**538,119**	**464,551**	**69,642**

r Revised.

TABLE 53A

AVERAGE NUMBER OF CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE – YEAR 1986p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**77,930,329**	**68,852,699**	**8,440,086**
Maine	552,638	491,530	57,707
New Hampshire	433,962	378,787	51,753
Vermont	206,767	181,177	22,437
Massachusetts	2,117,766	1,884,684	217,987
Rhode Island	399,077	357,210	38,425
Connecticut	1,281,896	1,169,144	104,339
New England	**4,992,106**	**4,462,532**	**492,648**
New York	6,632,698	5,868,373	731,432
New Jersey	3,030,049	2,670,263	340,269
Pennsylvania	4,697,684	4,194,215	468,533
Middle Atlantic	**14,360,431**	**12,732,851**	**1,540,234**
Ohio	3,948,553	3,545,688	361,353
Indiana	1,760,680	1,561,656	178,275
Illinois	4,236,210	3,833,958	383,922
Michigan	3,414,564	3,087,690	311,004
Wisconsin	1,752,835	1,565,958	180,169
East North Central	**15,112,842**	**13,594,950**	**1,414,723**
Minnesota	1,105,296	976,217	118,340
Iowa	929,507	798,504	122,820
Missouri	1,497,956	1,319,911	165,024
North Dakota	195,324	164,491	28,430
South Dakota	169,245	142,888	25,337
Nebraska	–	–	–
Kansas	750,253	659,028	82,299
West North Central	**4,647,582**	**4,061,039**	**542,250**
Delaware	202,060	182,315	19,128
Maryland	1,594,363	1,438,827	149,746
District of Columbia	208,255	182,924	25,125
Virginia	1,965,292	1,752,090	186,689
West Virginia	819,592	721,051	86,983
North Carolina	1,963,700	1,685,748	259,727
South Carolina	907,867	777,862	122,794
Georgia	1,517,103	1,333,364	168,865
Florida	4,394,071	3,899,445	459,132
South Atlantic	**13,572,303**	**11,973,626**	**1,478,189**
Kentucky	919,516	796,141	107,445
Tennessee	36,216	32,350	3,583
Alabama	1,059,886	925,785	128,793
Mississippi	503,187	429,399	67,058
East South Central	**2,518,805**	**2,183,675**	**306,879**
Arkansas	676,298	581,315	73,877
Louisiana	1,387,177	1,216,991	144,745
Oklahoma	1,053,010	914,074	116,633
Texas	5,098,662	4,423,182	597,559
West South Central	**8,215,147**	**7,135,562**	**932,814**
Montana	297,057	248,326	42,161
Idaho	376,382	317,413	55,983
Wyoming	156,666	131,152	23,263
Colorado	973,999	862,569	110,556
New Mexico	435,079	379,718	50,135
Arizona	805,985	709,008	91,195
Utah	457,466	410,123	38,151
Nevada	413,917	360,597	52,723
Mountain	**3,916,551**	**3,418,906**	**464,167**
Washington	909,616	809,431	95,835
Oregon	965,792	838,426	124,877
California	8,370,609	7,341,365	1,001,731
Pacific	**10,246,017**	**8,989,222**	**1,222,443**
Alaska	14,842	12,447	2,125
Hawaii	333,703	287,889	43,614
Alaska & Hawaii	**348,545**	**300,336**	**45,739**

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TABLE 53B

AVERAGE NUMBER OF CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1985r

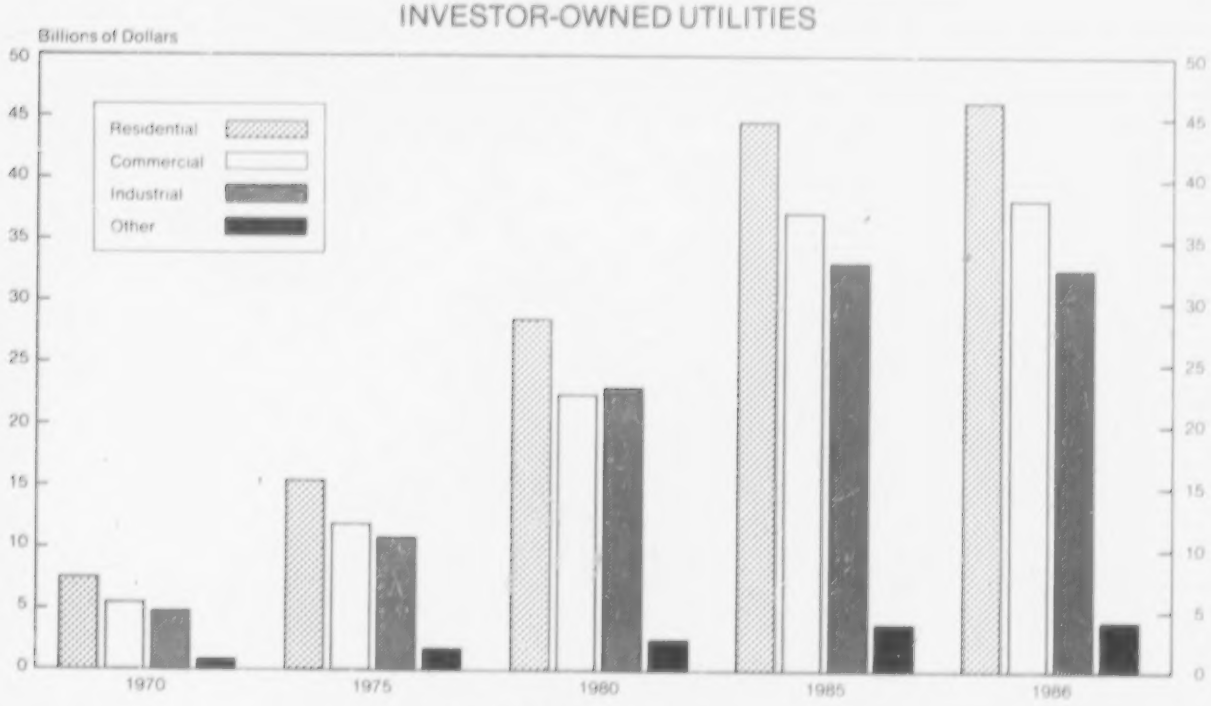
Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**76,414,518**	**67,541,290**	**8,234,431**
Maine	541,379	479,464	58,486
New Hampshire	409,937	358,546	48,045
Vermont	201,240	176,620	21,445
Massachusetts	2,072,521	1,849,195	208,367
Rhode Island	391,757	351,334	37,071
Connecticut	1,255,574	1,145,814	101,391
New England	**4,872,408**	**4,360,973**	**474,805**
New York	6,549,047	5,804,925	702,298
New Jersey	2,967,785	2,617,643	330,669
Pennsylvania	4,641,392	4,147,046	458,360
Middle Atlantic	**14,158,224**	**12,569,614**	**1,491,327**
Ohio	3,910,644	3,514,214	355,501
Indiana	1,741,765	1,545,648	176,011
Illinois	4,209,757	3,811,427	380,536
Michigan	3,375,582	3,055,639	304,578
Wisconsin	1,732,009	1,548,751	177,108
East North Central	**14,969,757**	**13,475,679**	**1,393,734**
Minnesota	1,090,733	963,694	116,582
Iowa	927,528	797,583	121,800
Missouri	1,471,393	1,297,345	161,375
North Dakota	194,489	163,985	28,155
South Dakota	167,746	141,625	25,113
Nebraska	—	—	—
Kansas	738,308	648,599	80,699
West North Central	**4,590,197**	**4,012,831**	**533,724**
Delaware	194,254	175,715	17,922
Maryland	1,547,913	1,398,127	144,237
District of Columbia	205,623	180,584	24,838
Virginia	1,899,989	1,696,178	177,978
West Virginia	817,067	719,854	85,808
North Carolina	1,893,878	1,626,848	249,033
South Carolina	884,267	758,644	118,528
Georgia	1,467,295	1,290,903	161,616
Florida	4,220,801	3,752,202	435,144
South Atlantic	**13,131,087**	**11,599,055**	**1,415,104**
Kentucky	906,103	785,201	104,946
Tennessee	35,470	31,701	3,491
Alabama	1,040,715	910,341	125,221
Mississippi	496,281	423,499	66,199
East South Central	**2,478,569**	**2,150,742**	**299,857**
Arkansas	666,702	573,172	72,571
Louisiana	1,384,048	1,214,710	143,338
Oklahoma	1,054,786	916,523	115,820
Texas	4,998,973	4,332,484	589,272
West South Central	**8,104,509**	**7,036,889**	**921,001**
Montana	295,377	247,642	41,289
Idaho	373,464	314,673	55,739
Wyoming	155,260	129,949	22,994
Colorado	954,667	841,532	112,263
New Mexico	419,963	366,876	47,954
Arizona	764,490	671,398	87,077
Utah	443,872	398,021	36,990
Nevada	394,662	344,272	49,812
Mountain	**3,801,755**	**3,314,363**	**454,118**
Washington	886,346	789,126	92,913
Oregon	954,038	829,086	122,519
California	8,125,974	7,108,200	990,917
Pacific	**9,966,358**	**8,726,412**	**1,206,349**
Alaska	14,758	12,447	2,040
Hawaii	326,896	282,285	42,372
Alaska & Hawaii	**341,654**	**294,732**	**44,412**

r Revised

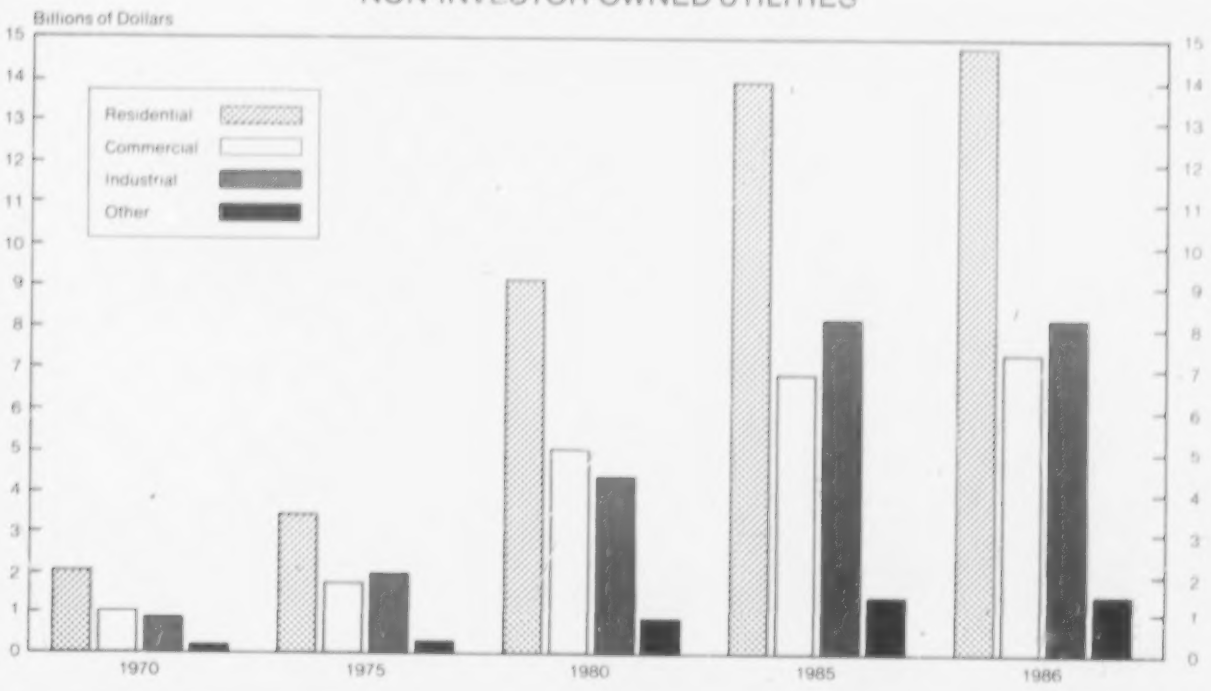
REVENUES
SECTION VIII

Chart VIII-A
REVENUE FROM ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



NON-INVESTOR-OWNED UTILITIES



Based on Tables 56 and 57, on page 64

TABLE 56

REVENUES
TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenue from Sales †	Exports to Canada and Mexico	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1986p	**$152,827,901**	**$13,688**	**$152,814,213**	**$61,030,288**	**$45,737,974**	**$40,776,774**	**$1,506,650**	**$3,235,660**	**$312,369**	**$214,499**
1985r	149,187,568	25,216	149,162,352	58,591,751	44,060,554	41,367,847	1,476,092	3,163,473	313,165	189,470
1984	143,114,300	21,796	143,092,504	56,116,141	41,253,720	40,795,789	1,375,931	3,044,623	302,725	203,574
1983	129,596,675	7,874	129,588,801	51,226,246	37,103,377	36,611,630	1,324,955	2,864,037	296,766	161,790
1982	121,597,243	13,012	121,584,231	47,188,127	34,150,840	35,881,745	1,254,430	2,633,749	291,751	183,589
1981	111,028,011	26,838	111,001,173	42,824,457	31,325,322	33,030,093	1,168,691	2,247,307	238,554	166,749
1980	95,505,802	43,421	95,462,381	37,580,892	27,369,963	27,316,770	1,041,008	1,811,065	207,683	135,000
1979	79,649,846	9,609	79,640,237	30,798,693	22,264,356	23,825,487	918,157	1,517,333	188,628	127,583
1978	69,865,806	12,862	69,852,944	27,381,419	19,714,364	20,280,391	849,677	1,350,439	170,123	106,531
1977	62,629,713	13,684	62,610,029	24,687,500	18,021,548	17,629,321	776,771	1,245,155	145,680	104,054
1976	53,480,659	17,795	53,462,864	21,149,590	15,236,104	14,999,522	724,436	1,112,247	163,840	77,125
1975	46,864,685	11,229	46,853,456	18,803,156	13,486,624	12,707,490	659,332	975,799	159,160	61,895
1974	39,133,322	6,517	39,126,805	15,702,853	11,196,960	10,673,464	573,164	780,010	146,112	54,242
1973	31,668,281	5,422	31,662,859	13,194,773	9,147,188	8,073,636	491,831	620,991	91,903	42,537
1972	27,927,681	6,611	27,921,070	11,729,833	8,041,052	6,983,891	449,831	593,267	85,300	37,896
1971	24,735,122	9,963	24,725,159	10,483,526	7,071,971	6,133,964	411,534	512,772	77,862	33,530
1970	22,076,885	11,023	22,065,862	9,415,707	6,290,225	5,429,852	377,791	453,104	69,169	30,014
1969	20,144,225	4,876	20,139,349	8,532,729	5,704,764	5,044,857	350,563	417,571	62,981	25,884
1968	18,585,368	5,489	18,579,879	7,802,033	5,315,100	4,672,211	327,196	379,435	61,440	22,464
1967	17,226,235	3,515	17,222,720	7,183,908	4,935,911	4,364,759	307,272	349,323	60,609	20,938
1966	16,199,140	3,004	16,196,136	6,733,714	4,649,084	4,134,538	281,584	321,001	59,132	17,083

Note: Total may not equal sum of components due to independent rounding.
† Excludes other electric revenues.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 57

REVENUES
INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenues	Other Revenues †	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1986p	**$127,552,448**	**$6,480,404**	**$121,072,044**	**$46,239,781**	**$38,379,360**	**$32,621,151**	**$1,177,866**	**$2,334,092**	**$156,846**	**$162,947**
1985r	125,547,432	6,711,160	118,836,272	44,651,261	37,241,520	33,204,216	1,159,701	2,285,783	157,728	136,064
1984	120,090,160	6,752,083	113,338,077	42,474,833	34,720,332	32,605,010	1,119,279	2,144,129	142,578	131,916
1983	109,446,384	6,581,164	102,865,220	39,067,481	31,336,661	29,275,314	1,057,872	1,899,057	126,300	102,536
1982	101,692,973	4,595,135	97,097,838	36,138,384	29,603,969	28,322,848	1,022,473	1,775,494	130,340	104,329
1981	94,266,325	5,497,327	88,768,998	32,622,129	26,370,929	26,986,678	933,861	1,641,632	120,124	93,645
1980	80,635,823	4,460,469	76,175,354	28,492,402	22,351,012	22,970,668	819,762	1,362,136	111,552	67,822
1979	68,151,992	4,274,055	63,877,937	23,613,621	18,463,690	19,801,718	716,209	1,137,987	80,002	64,710
1978	61,298,846	3,683,472	57,615,374	21,623,578	16,784,764	17,379,313	682,895	1,016,671	74,772	53,381
1977	55,141,656	3,364,784	51,776,872	19,541,802	15,404,917	15,092,313	632,154	964,452	90,263	50,971
1976	47,079,734	2,599,312	44,480,422	16,920,314	13,137,482	12,688,950	612,674	935,116	150,173	35,713
1975	41,855,398	2,285,281	39,570,117	15,434,811	11,766,583	10,785,231	558,554	841,853	157,539	25,546
1974	34,970,201	1,784,436	33,185,765	12,881,369	9,737,585	9,243,172	485,472	670,971	144,837	22,359
1973	27,525,926	1,208,947	26,316,979	10,590,178	7,807,644	6,875,953	412,921	522,826	90,753	16,704
1972	24,132,546	1,011,942	23,120,604	9,359,949	6,832,630	5,950,367	378,413	502,910	84,144	12,191
1971	21,230,373	835,581	20,394,792	8,308,330	6,016,096	5,199,601	347,972	435,949	76,701	10,143
1970	18,830,214	722,994	18,107,220	7,424,224	5,314,447	4,591,093	319,373	381,405	68,030	8,648
1969	17,163,515	647,843	16,515,672	6,722,985	4,804,558	4,274,968	296,028	347,078	61,855	8,200
1968	15,809,534	577,493	15,232,041	6,142,073	4,471,545	3,961,473	276,010	313,231	60,295	7,414
1967	14,568,786	513,147	14,055,639	5,639,111	4,125,734	3,679,635	258,324	286,898	59,358	6,579
1966	13,772,851	488,777	13,284,074	5,308,626	3,906,604	3,497,745	240,978	266,626	58,006	5,489

Note: Total may not equal sum of components due to independent rounding.
† Includes revenue from sales to non-investor-owned electric utilities, from exports and other electric revenues.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 58

REVENUES IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE

Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
1986p	**39.9%**	**29.9%**	**26.8%**	**1.0%**	**2.1%**	**0.2%**	**0.1%**
1985r	39.3	29.5	27.8	1.0	2.1	0.2	0.1
1984	39.3	28.8	28.5	1.0	2.1	0.2	0.1
1983	39.5	28.6	28.3	1.0	2.2	0.3	0.1
1982	38.8	28.1	29.5	1.0	2.2	0.2	0.2
1981	38.6	28.2	29.7	1.1	2.0	0.2	0.2
1980	39.4	28.7	28.6	1.1	1.9	0.2	0.1
1979	38.7	28.0	29.9	1.1	1.9	0.2	0.2
1978	39.2	28.2	29.0	1.2	1.9	0.3	0.2
1977	39.4	28.8	28.2	1.2	2.0	0.2	0.2
1976	39.6	28.5	28.0	1.4	2.1	0.3	0.1
1975	40.1	28.8	27.1	1.4	2.1	0.4	0.1
1974	40.1	28.6	27.3	1.5	2.0	0.4	0.1
1973	41.6	28.9	25.5	1.6	2.0	0.3	0.1
1972	42.0	28.8	25.0	1.6	2.1	0.3	0.2
1971	42.4	28.6	24.8	1.7	2.1	0.3	0.1
1970	42.7	28.5	24.6	1.7	2.1	0.3	0.1
1969	42.4	28.3	25.0	1.8	2.1	0.3	0.1
1968	42.0	28.6	25.2	1.8	2.0	0.3	0.1
1967	41.7	28.7	25.3	1.8	2.0	0.4	0.1
1966	41.6	28.7	25.5	1.7	2.0	0.4	0.1

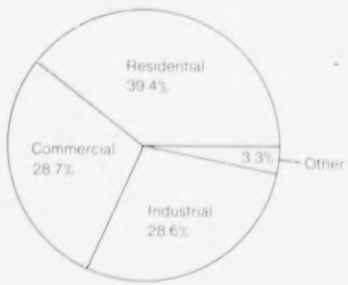
Based on revenue data in Table 56. p Preliminary. r Revised.

CHART VIII-B

REVENUE

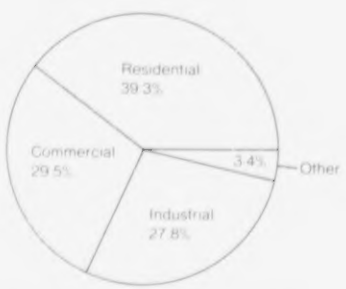
BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
THOUSANDS OF DOLLARS

1980 REVENUE



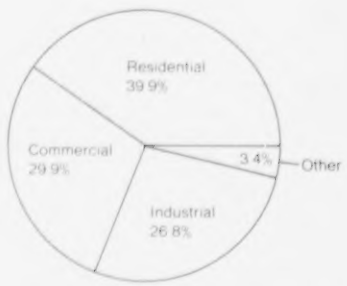
Total Revenue = $95,462,381

1985 REVENUE



Total Revenue = $149,162,352

1986 REVENUE



Total Revenue = $152,814,213

Based on Table 58, as shown above.

TABLE 59A

REVENUES
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1986p—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$152,814,213**	**$61,030,288**	**$45,737,974**	**$40,776,774**	**$1,506,650**	**$3,235,660**	**$312,369**	**$214,499**
Maine	689,598	290,749	174,424	205,408	11,038	7,902	–	77
New Hampshire	575,030	263,338	128,101	172,774	6,797	4,020	–	–
Vermont	344,428	150,063	70,477	108,161	2,851	12,854	–	21
Massachusetts	3,092,798	1,154,998	1,205,358	642,432	51,502	38,507	–	–
Rhode Island	450,291	179,250	157,279	98,943	6,497	8,322	–	–
Connecticut	2,053,668	843,980	740,347	425,705	31,583	1,897	9,552	604
New England	**7,205,813**	**2,882,378**	**2,475,987**	**1,653,422**	**110,269**	**73,503**	**9,552**	**703**
New York	10,166,226	3,563,995	4,319,932	1,448,048	145,204	529,971	157,004	2,072
New Jersey	5,250,579	1,930,865	2,046,145	1,199,437	71,661	167	378	1,927
Pennsylvania	7,643,748	3,038,405	1,924,801	2,526,063	88,249	9,422	52,109	4,700
Middle Atlantic	**23,060,553**	**8,533,264**	**8,290,877**	**5,173,548**	**305,114**	**539,560**	**209,491**	**8,699**
Ohio	7,272,142	2,701,822	1,865,073	2,453,599	60,157	186,819	3,634	1,038
Indiana	3,683,659	1,491,370	755,120	1,387,744	32,831	12,664	1,281	2,649
Illinois	7,761,561	2,939,293	2,237,223	2,087,177	48,509	420,936	28,342	79
Michigan	5,126,175	1,741,499	1,403,175	1,874,815	58,921	44,372	–	3,393
Wisconsin	2,469,815	1,036,169	684,456	700,533	30,342	13,641	–	4,673
East North Central	**26,313,352**	**9,910,153**	**6,945,048**	**8,503,868**	**230,762**	**678,433**	**33,257**	**11,832**
Minnesota	2,199,795	929,266	405,228	823,839	24,255	16,998	–	208
Iowa	1,662,188	773,110	396,151	444,548	19,220	29,104	–	55
Missouri	2,991,086	1,400,605	985,998	542,627	30,327	30,631	316	583
North Dakota	389,759	179,897	100,380	92,024	6,565	10,774	–	120
South Dakota	342,896	183,536	103,142	44,938	5,340	5,937	–	2
Nebraska	846,850	368,681	284,866	159,316	12,616	20,522	–	849
Kansas	1,700,680	693,785	598,386	379,525	17,624	11,419	–	139
West North Central	**10,133,454**	**4,528,881**	**2,874,150**	**2,486,816**	**115,947**	**125,386**	**316**	**1,957**
Delaware	447,429	177,496	123,203	142,490	2,939	1,179	–	122
Maryland	2,674,751	1,145,477	701,190	774,769	39,768	472	11,356	1,718
District of Columbia	587,026	90,896	320,617	156,383	4,371	–	14,758	–
Virginia	3,659,483	1,690,318	978,149	608,787	34,502	347,107	621	–
West Virginia	1,038,666	425,321	253,600	351,809	6,214	1,710	–	12
North Carolina	4,820,731	2,162,384	1,319,799	1,234,770	30,947	71,623	–	1,208
South Carolina	2,736,039	1,153,688	593,349	951,127	10,658	26,731	–	486
Georgia	3,984,561	1,696,285	1,138,045	1,097,911	32,854	13,253	6,213	–
Florida	8,416,217	4,586,027	2,657,099	914,467	66,129	180,149	4,935	7,411
South Atlantic	**28,364,902**	**13,127,892**	**8,085,053**	**6,232,512**	**228,382**	**642,224**	**37,884**	**10,955**
Kentucky	2,586,178	904,934	454,597	977,979	14,398	231,550	–	2,719
Tennessee	3,627,279	1,423,552	431,995	1,738,757	25,417	2,760	–	4,798
Alabama	2,934,466	1,198,206	616,701	1,096,366	20,216	1,037	–	1,940
Mississippi	1,665,626	735,558	440,406	454,473	14,071	20,909	–	209
East South Central	**10,813,549**	**4,262,250**	**1,943,700**	**4,267,575**	**74,102**	**256,256**	**–**	**9,666**
Arkansas	1,545,611	737,059	370,810	408,670	9,246	19,825	–	–
Louisiana	3,674,958	1,441,837	903,641	1,115,688	24,839	98,544	–	90,409
Oklahoma	2,147,390	991,287	623,531	427,536	13,718	91,319	–	–
Texas	12,126,387	4,925,977	3,411,007	3,386,944	88,126	302,828	–	11,506
West South Central	**19,494,347**	**8,096,161**	**5,308,988**	**5,338,839**	**135,929**	**512,516**	**–**	**101,915**
Montana	460,853	172,441	124,135	154,788	6,012	2,872	–	605
Idaho	590,377	243,506	184,658	158,039	3,291	883	–	–
Wyoming	485,935	108,718	126,028	245,824	3,267	1,863	–	235
Colorado	1,604,091	628,099	673,836	268,719	22,773	10,664	–	*
New Mexico	878,658	282,375	327,156	222,358	6,863	35,968	–	3,938
Arizona	2,508,941	1,084,832	885,328	465,906	28,535	28,874	1,662	13,802
Utah	882,278	311,295	297,109	234,717	6,049	33,049	–	58
Nevada	672,830	269,920	201,904	184,379	5,390	11,233	–	3
Mountain	**8,083,964**	**3,101,186**	**2,820,155**	**1,934,732**	**82,181**	**125,406**	**1,662**	**18,643**
Washington	2,391,018	1,053,787	610,018	673,214	19,091	33,901	544	463
Oregon	1,546,894	622,214	501,251	405,550	14,470	2,692	–	717
California	14,476,611	4,572,784	5,548,655	3,871,000	176,207	239,372	19,664	48,930
Pacific	**18,414,523**	**6,248,785**	**6,659,924**	**4,949,764**	**209,767**	**275,965**	**20,208**	**50,110**
Alaska	367,302	157,385	171,083	23,040	9,364	6,411	–	19
Hawaii	562,455	181,953	163,010	212,657	4,834	–	–	–
Alaska & Hawaii	**929,757**	**339,338**	**334,093**	**235,698**	**14,198**	**6,411**	**–**	**19**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.
**Less than five hundred dollars.*

TABLE 59B

REVENUES
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1985r – THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$149,162,352**	**$58,591,751**	**$44,060,554**	**$41,367,847**	**$1,476,092**	**$3,163,473**	**$313,165**	**$189,470**
Maine	675,787	276,669	167,645	213,389	10,481	7,580	–	22
New Hampshire	568,564	254,748	124,561	178,284	7,183	3,788	–	–
Vermont	308,002	134,357	61,409	97,160	2,464	12,577	–	35
Massachusetts	3,153,231	1,174,364	1,212,956	673,173	51,750	40,988	–	–
Rhode Island	456,038	179,998	158,633	102,095	6,584	8,727	–	–
Connecticut	2,119,609	861,943	750,284	463,430	32,490	1,932	8,857	672
New England	**7,281,231**	**2,882,079**	**2,475,489**	**1,727,532**	**110,953**	**75,593**	**8,857**	**729**
New York	10,258,440	3,563,316	4,288,735	1,576,920	144,939	522,267	158,349	1,914
New Jersey	5,150,606	1,889,420	1,959,362	1,227,019	72,396	169	363	1,877
Pennsylvania	7,245,882	2,790,648	1,781,659	2,517,992	88,132	9,973	53,151	4,329
Middle Atlantic	**22,654,928**	**8,243,385**	**8,029,756**	**5,323,931**	**305,466**	**532,408**	**211,863**	**8,119**
Ohio	7,135,915	2,606,877	1,783,420	2,498,894	58,894	183,004	3,695	1,131
Indiana	3,461,344	1,363,274	673,383	1,374,605	33,117	12,529	1,383	3,053
Illinois	7,151,668	2,700,690	2,201,125	1,797,188	43,930	382,817	25,861	57
Michigan	4,907,523	1,637,912	1,326,693	1,832,464	57,770	49,343	–	3,340
Wisconsin	2,392,266	1,002,154	667,641	677,461	26,830	13,807	–	4,373
East North Central	**25,048,715**	**9,310,908**	**6,652,262**	**8,180,612**	**220,542**	**641,500**	**30,939**	**11,954**
Minnesota	2,075,705	865,643	374,945	795,579	22,977	16,393	–	168
Iowa	1,657,352	755,530	401,561	450,923	19,039	30,242	–	57
Missouri	2,650,582	1,216,979	872,519	501,120	28,865	30,025	525	549
North Dakota	395,099	183,596	99,890	94,775	6,435	10,304	–	100
South Dakota	332,448	179,634	100,535	40,910	5,331	6,037	–	1
Nebraska	830,056	362,293	278,244	155,781	12,108	20,403	–	1,226
Kansas	1,528,484	614,205	532,997	354,834	15,517	10,786	–	145
West North Central	**9,469,726**	**4,177,879**	**2,660,692**	**2,393,922**	**110,272**	**124,191**	**525**	**2,245**
Delaware	461,768	178,266	126,556	152,518	2,996	1,232	–	201
Maryland	2,490,668	1,041,460	654,163	742,279	39,111	467	11,558	1,630
District of Columbia	580,691	85,419	314,813	157,018	7,740	–	15,701	–
Virginia	3,318,454	1,494,100	892,828	587,617	31,440	311,108	1,360	–
West Virginia	1,000,094	394,155	237,295	361,042	5,961	1,630	–	12
North Carolina	4,250,722	1,885,239	1,077,548	1,195,301	29,021	62,560	–	1,053
South Carolina	2,531,664	1,032,515	543,519	899,417	10,555	45,160	–	398
Georgia	3,694,570	1,519,741	1,058,363	1,066,747	31,511	12,434	5,774	–
Florida	8,480,690	4,556,428	2,675,113	995,778	67,307	174,968	3,985	7,110
South Atlantic	**26,809,321**	**12,187,324**	**7,580,298**	**6,157,718**	**225,642**	**609,558**	**38,378**	**10,403**
Kentucky	2,505,392	850,159	432,728	948,085	14,392	257,463	–	2,566
Tennessee	3,372,053	1,256,064	379,012	1,704,668	24,225	2,714	–	5,370
Alabama	2,829,720	1,098,666	576,627	1,131,128	19,752	942	–	2,605
Mississippi	1,502,070	649,258	394,996	426,568	12,710	18,259	–	279
East South Central	**10,209,235**	**3,854,146**	**1,783,363**	**4,210,449**	**71,078**	**279,378**	**–**	**10,820**
Arkansas	1,485,495	680,235	341,188	433,111	8,735	22,226	–	–
Louisiana	3,743,573	1,394,839	876,116	1,271,992	22,959	97,500	–	80,166
Oklahoma	2,082,892	940,770	595,947	443,598	12,377	90,199	–	–
Texas	13,384,100	5,378,239	3,634,435	3,940,041	88,765	331,336	–	11,283
West South Central	**20,696,059**	**8,394,083**	**5,447,686**	**6,088,742**	**132,837**	**541,262**	**–**	**91,450**
Montana	429,642	163,074	112,860	145,034	5,660	2,411	–	602
Idaho	591,704	245,838	181,514	160,278	3,214	860	–	–
Wyoming	448,246	103,833	117,971	221,583	3,118	1,532	–	210
Colorado	1,582,603	613,732	695,334	241,507	21,685	10,345	–	–
New Mexico	841,117	268,772	309,011	216,748	6,477	35,377	–	4,733
Arizona	2,318,976	1,000,318	794,570	453,103	27,917	27,070	1,536	14,461
Utah	867,905	309,572	286,496	234,804	5,925	31,047	–	60
Nevada	638,275	264,238	189,108	170,196	5,080	9,651	–	2
Mountain	**7,718,468**	**2,969,377**	**2,686,863**	**1,843,254**	**79,075**	**118,293**	**1,536**	**20,069**
Washington	2,418,083	1,087,514	582,727	696,328	18,471	31,948	537	557
Oregon	1,585,369	651,274	499,334	417,480	14,407	2,667	–	207
California	14,268,422	4,473,218	5,335,353	4,032,681	173,037	200,701	20,531	32,901
Pacific	**18,271,873**	**6,212,006**	**6,417,414**	**5,146,489**	**205,915**	**235,316**	**21,068**	**33,665**
Alaska	330,330	147,137	147,308	21,570	8,325	5,974	–	16
Hawaii	672,465	213,428	179,423	273,628	5,986	–	–	–
Alaska & Hawaii	**1,002,796**	**360,565**	**326,731**	**295,199**	**14,311**	**5,974**	**–**	**16**

Note: Total may not equal sum of components due to independent rounding.
r Revised.

TABLE 60A

REVENUES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1986p – THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$121,072,044**	**$46,239,781**	**$38,379,360**	**$32,621,151**	**$1,177,866**	**$2,334,092**	**$156,846**	**$162,947**
Maine	670,601	279,963	171,301	201,102	10,681	7,554	–	–
New Hampshire	530,360	235,184	114,988	169,779	6,427	3,983	–	–
Vermont	279,043	118,462	61,265	84,939	2,271	12,105	–	–
Massachusetts	2,695,004	1,008,651	1,115,118	502,733	47,198	21,305	–	–
Rhode Island	447,831	177,770	156,909	98,347	6,486	8,319	–	–
Connecticut	1,955,978	814,604	715,565	386,265	29,993	–	9,552	–
New England	**6,578,818**	**2,634,634**	**2,335,145**	**1,443,164**	**103,055**	**53,267**	**9,552**	**–**
New York	9,432,774	3,516,559	4,302,100	1,305,367	86,388	214,642	5,648	2,072
New Jersey	5,180,728	1,895,363	2,032,808	1,178,741	71,511	–	378	1,927
Pennsylvania	7,434,570	2,889,093	1,888,972	2,503,680	87,226	8,790	52,109	4,700
Middle Atlantic	**22,048,072**	**8,301,015**	**8,223,880**	**4,987,788**	**245,124**	**223,431**	**58,135**	**8,699**
Ohio	6,732,292	2,396,708	1,761,894	2,332,960	57,499	178,559	3,634	1,038
Indiana	3,053,765	1,089,518	641,271	1,282,137	28,528	8,381	1,281	2,649
Illinois	7,222,776	2,615,787	2,100,905	2,023,357	47,243	407,061	28,342	79
Michigan	4,684,100	1,563,333	1,258,130	1,769,191	50,561	39,491	–	3,393
Wisconsin	2,097,491	827,133	631,408	599,686	26,120	11,258	–	1,887
East North Central	**23,790,423**	**8,492,479**	**6,393,609**	**8,007,332**	**209,950**	**644,751**	**33,257**	**9,046**
Minnesota	1,452,791	454,806	249,043	718,323	17,043	13,368	–	208
Iowa	1,277,034	516,023	346,346	375,686	17,947	20,977	–	55
Missouri	2,250,352	934,836	843,982	431,117	23,982	16,357	–	77
North Dakota	209,708	94,125	54,017	53,330	3,298	4,818	–	120
South Dakota	192,820	83,604	69,763	35,017	2,644	1,790	–	2
Nebraska	–	–	–	–	–	–	–	–
Kansas	1,165,766	471,226	400,046	278,078	14,771	1,506	–	139
West North Central	**6,548,470**	**2,554,620**	**1,963,196**	**1,891,551**	**79,686**	**58,815**	**–**	**601**
Delaware	346,215	131,444	105,003	106,991	2,656	–	–	122
Maryland	2,508,528	1,045,509	658,072	758,440	33,433	–	11,356	1,718
District of Columbia	587,026	90,896	320,617	156,383	4,371	–	14,758	–
Virginia	3,225,787	1,431,841	899,479	528,128	31,807	333,911	621	–
West Virginia	1,033,118	421,866	252,421	350,023	6,186	1,710	–	12
North Carolina	3,608,789	1,452,102	951,336	1,126,892	22,317	55,811	–	331
South Carolina	1,929,537	706,375	460,825	731,628	8,321	21,903	–	486
Georgia	2,829,208	954,863	913,846	926,223	23,361	4,700	6,213	–
Florida	6,577,806	3,574,809	2,179,320	601,169	50,367	159,794	4,935	7,411
South Atlantic	**22,646,013**	**9,809,706**	**6,740,920**	**5,286,777**	**182,819**	**577,829**	**37,884**	**10,079**
Kentucky	1,416,558	491,727	335,247	348,461	10,152	230,936	–	35
Tennessee	60,373	25,440	12,956	20,289	386	1,302	–	–
Alabama	1,936,746	738,864	481,676	705,396	10,567	–	–	244
Mississippi	915,359	348,134	278,762	259,634	9,391	19,439	–	–
East South Central	**4,329,036**	**1,604,165**	**1,108,640**	**1,333,780**	**30,495**	**251,677**	**–**	**279**
Arkansas	1,079,949	449,832	271,180	334,133	7,865	16,940	–	–
Louisiana	2,880,579	1,041,768	696,458	935,547	24,565	91,831	–	90,409
Oklahoma	1,578,412	659,590	461,656	355,047	13,499	88,620	–	–
Texas	9,637,664	3,688,213	2,680,550	2,987,859	72,221	207,853	–	968
West South Central	**15,176,603**	**5,839,403**	**4,109,844**	**4,612,586**	**118,149**	**405,243**	**–**	**91,377**
Montana	300,758	111,171	87,217	94,282	5,074	2,455	–	559
Idaho	507,231	201,145	157,594	145,372	3,017	102	–	–
Wyoming	293,452	59,993	56,357	174,373	1,902	592	–	235
Colorado	1,052,490	384,847	496,302	148,095	16,886	6,361	–	–
New Mexico	625,957	204,132	230,732	151,458	5,837	30,668	–	3,129
Arizona	1,500,899	622,061	554,701	294,272	13,187	11,175	–	5,503
Utah	719,128	257,260	218,080	207,322	5,960	30,474	–	32
Nevada	633,233	258,389	187,688	170,908	5,273	10,975	–	–
Mountain	**5,633,148**	**2,098,998**	**1,988,672**	**1,386,081**	**57,137**	**92,802**	**–**	**9,458**
Washington	1,003,056	529,889	334,320	128,773	10,074	1	–	–
Oregon	1,231,186	494,047	425,169	297,428	13,678	314	–	550
California	11,503,612	3,689,272	4,585,898	3,029,713	122,730	25,122	18,018	32,858
Pacific	**13,737,854**	**4,713,208**	**5,345,387**	**3,455,914**	**146,481**	**25,436**	**18,018**	**33,409**
Alaska	21,153	9,600	7,057	3,521	135	839	–	–
Hawaii	562,455	181,953	163,010	212,657	4,834	–	–	–
Alaska & Hawaii	**583,607**	**191,553**	**170,067**	**216,179**	**4,970**	**839**	**–**	**–**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.

TABLE 60B

REVENUES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE

YEAR 1985r—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$118,836,272**	**$44,651,261**	**$37,241,520**	**$33,204,216**	**$1,159,701**	**$2,285,783**	**$157,728**	**$136,064**
Maine	656,818	266,000	164,646	208,669	10,080	7,423	–	–
New Hampshire	525,537	227,884	111,802	175,301	6,891	3,658	–	–
Vermont	247,167	105,380	52,745	75,292	1,979	11,770	–	–
Massachusetts	2,764,325	1,023,235	1,131,998	538,985	47,393	22,714	–	–
Rhode Island	453,564	178,423	158,307	101,544	6,565	8,724	–	–
Connecticut	2,017,946	832,082	725,481	420,180	31,347	–	8,857	–
New England	**6,665,356**	**2,633,004**	**2,344,979**	**1,519,972**	**104,255**	**54,289**	**8,857**	**–**
New York	9,523,620	3,515,998	4,271,311	1,434,126	86,178	207,101	6,993	1,914
New Jersey	5,082,635	1,855,011	1,947,126	1,206,015	72,244	–	363	1,877
Pennsylvania	7,051,587	2,653,502	1,748,496	2,495,673	87,101	9,336	53,151	4,329
Middle Atlantic	**21,657,842**	**8,024,510**	**7,966,932**	**5,135,814**	**245,524**	**216,437**	**60,506**	**8,119**
Ohio	6,609,290	2,312,485	1,684,758	2,376,028	56,288	174,905	3,695	1,131
Indiana	2,876,271	994,868	571,027	1,269,095	28,713	8,132	1,383	3,053
Illinois	6,648,363	2,401,894	2,066,845	1,741,244	42,777	369,686	25,861	57
Michigan	4,478,060	1,468,934	1,187,573	1,724,825	49,209	44,179	–	3,340
Wisconsin	2,032,238	799,904	616,024	580,191	22,898	11,397	–	1,824
East North Central	**22,644,222**	**7,978,086**	**6,126,225**	**7,691,383**	**199,885**	**608,299**	**30,939**	**9,405**
Minnesota	1,376,707	423,505	230,280	693,682	16,097	12,974	–	168
Iowa	1,276,234	504,329	351,081	381,071	17,741	21,955	–	57
Missouri	1,990,034	809,262	744,684	397,287	22,879	15,843	–	78
North Dakota	212,698	96,061	53,753	54,924	3,278	4,582	–	99
South Dakota	186,204	81,827	67,999	31,879	2,596	1,903	–	1
Nebraska	–	–	–	–	–	–	–	–
Kansas	1,041,198	414,770	355,278	256,650	12,910	1,445	–	145
West North Central	**6,083,076**	**2,329,754**	**1,803,076**	**1,815,493**	**75,502**	**58,703**	**–**	**548**
Delaware	357,296	132,014	107,861	114,520	2,700	–	–	201
Maryland	2,337,170	950,570	613,936	726,635	32,841	–	11,558	1,630
District of Columbia	580,691	85,419	314,813	157,018	7,740	–	15,701	–
Virginia	2,924,897	1,264,251	820,437	510,671	29,003	299,175	1,360	–
West Virginia	994,854	390,954	236,193	360,132	5,933	1,630	–	12
North Carolina	3,218,819	1,264,525	844,944	1,039,361	21,294	48,426	–	269
South Carolina	1,776,084	632,446	425,058	687,842	8,248	22,092	–	398
Georgia	2,642,675	857,010	850,649	902,427	22,489	4,325	5,774	–
Florida	6,623,141	3,554,595	2,190,899	659,984	51,641	154,927	3,985	7,110
South Atlantic	**21,455,627**	**9,131,783**	**6,404,790**	**5,158,591**	**181,890**	**530,574**	**38,378**	**9,619**
Kentucky	1,402,607	464,914	320,489	350,417	9,946	256,799	–	41
Tennessee	60,717	24,809	13,001	21,214	366	1,327	–	–
Alabama	1,865,828	684,970	453,651	717,078	10,044	–	–	85
Mississippi	821,409	304,617	248,890	242,538	8,419	16,946	–	–
East South Central	**4,150,561**	**1,479,309**	**1,036,031**	**1,331,248**	**28,774**	**275,073**	**–**	**126**
Arkansas	1,045,202	415,151	249,517	354,116	7,264	19,154	–	–
Louisiana	2,943,737	1,007,811	675,244	1,066,614	22,702	91,200	–	80,166
Oklahoma	1,535,323	625,977	441,233	368,386	12,164	87,563	–	–
Texas	10,733,077	4,052,438	2,876,022	3,505,336	73,259	225,142	–	900
West South Central	**16,257,339**	**6,101,377**	**4,241,996**	**5,294,451**	**115,389**	**423,059**	**–**	**81,067**
Montana	275,300	104,960	79,077	83,931	4,795	2,006	–	531
Idaho	508,512	203,116	154,919	147,431	2,947	99	–	–
Wyoming	269,952	57,338	52,768	157,177	1,792	666	–	210
Colorado	1,056,296	380,699	517,275	135,589	16,253	6,480	–	–
New Mexico	599,558	194,987	217,724	147,254	5,452	30,244	–	3,897
Arizona	1,371,734	566,033	492,524	283,208	12,840	10,924	–	6,206
Utah	707,975	255,826	210,243	207,435	5,838	28,598	–	34
Nevada	599,525	252,926	175,735	156,470	4,977	9,418	–	–
Mountain	**5,388,852**	**2,015,886**	**1,900,265**	**1,318,495**	**54,893**	**88,435**	**–**	**10,878**
Washington	998,706	555,510	315,214	118,266	9,714	1	–	–
Oregon	1,257,470	516,389	422,984	304,086	13,653	313	–	45
California	11,580,639	3,661,465	4,491,826	3,238,187	124,094	29,761	19,049	16,256
Pacific	**13,836,815**	**4,733,365**	**5,230,025**	**3,660,539**	**147,462**	**30,075**	**19,049**	**16,301**
Alaska	24,118	10,758	7,778	4,602	141	839	–	–
Hawaii	672,465	213,428	179,423	273,628	5,986	–	–	–
Alaska & Hawaii	**696,583**	**224,186**	**187,202**	**278,230**	**6,127**	**839**	**–**	**–**

Note: Total may not equal sum of components due to independent rounding.
r Revised.

TABLE 61

REVENUES
TOTAL ELECTRIC UTILITY INDUSTRY

BY QUARTER AND CLASS OF SERVICE
1981-1986—THOUSANDS OF DOLLARS

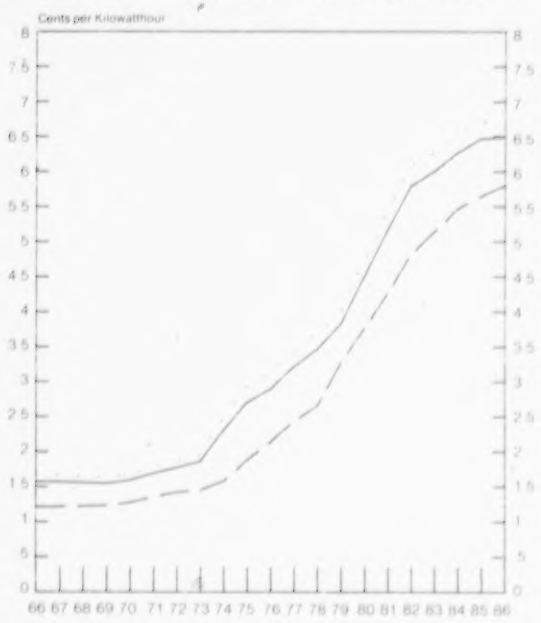
Year—Quarter	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR—1986p								
First Quarter	$ 37,741,734	$15,591,189	$10,802,417	$10,014,460	$ 387,143	$ 807,384	$ 83,222	$ 55,920
Second Quarter	35,656,951	13,261,711	11,044,200	10,085,973	365,273	777,945	74,338	47,510
Third Quarter	43,128,441	17,996,604	12,966,622	10,784,389	381,506	861,651	78,064	59,605
Fourth Quarter	36,287,087	14,180,785	10,924,734	9,891,952	372,728	788,680	76,746	51,463
Total	**$152,814,213**	**$61,030,288**	**$45,737,974**	**$40,776,774**	**$1,506,650**	**$3,235,660**	**$312,369**	**$214,499**
YEAR—1985r								
First Quarter	$ 36,754,335	$15,166,967	$10,267,363	$10,046,679	$ 374,536	$ 768,455	$ 79,540	$ 50,797
Second Quarter	35,007,556	12,809,647	10,584,167	10,360,169	360,647	774,643	72,559	45,725
Third Quarter	41,420,795	16,852,682	12,406,550	10,822,584	370,430	836,349	81,215	50,986
Fourth Quarter	35,979,667	13,762,456	10,802,475	10,138,415	370,479	784,027	79,852	41,963
Total	**$149,162,352**	**$58,591,751**	**$44,060,554**	**$41,367,847**	**$1,476,092**	**$3,163,473**	**$313,165**	**$189,470**
YEAR—1984								
First Quarter	$ 34,722,044	$14,377,830	$ 9,511,784	$ 9,633,803	$ 343,630	$ 736,404	$ 76,587	$ 42,006
Second Quarter	33,455,487	12,356,594	9,731,940	10,183,560	334,520	731,098	71,322	46,453
Third Quarter	40,284,362	16,304,756	11,860,912	10,819,381	350,557	813,464	77,858	57,434
Fourth Quarter	34,630,610	13,076,961	10,149,085	10,159,044	347,224	763,657	76,958	57,681
Total	**$143,092,504**	**$56,116,141**	**$41,253,720**	**$40,795,789**	**$1,375,931**	**$3,044,623**	**$302,725**	**$203,574**
YEAR—1983								
First Quarter	$ 30,583,012	$12,412,872	$ 8,510,712	$ 8,526,308	$ 334,860	$ 686,136	$ 77,160	$ 34,963
Second Quarter	29,337,252	10,887,230	8,574,493	8,778,599	316,158	673,477	67,335	39,960
Third Quarter	37,733,929	15,847,346	10,820,922	9,848,254	335,140	761,923	73,698	46,645
Fourth Quarter	31,934,609	12,078,798	9,197,249	9,458,469	338,797	742,501	78,573	40,221
Total	**$129,588,801**	**$51,226,246**	**$37,103,377**	**$36,611,630**	**$1,324,955**	**$2,864,037**	**$296,766**	**$161,790**
YEAR—1982								
First Quarter	$ 30,463,093	$12,200,151	$ 8,280,893	$ 8,899,615	$ 318,995	$ 642,501	$ 72,685	$ 48,253
Second Quarter	28,541,959	10,501,618	8,055,672	8,907,001	302,569	664,163	71,559	39,377
Third Quarter	33,376,269	13,260,202	9,542,893	9,441,965	287,525	714,244	80,494	48,946
Fourth Quarter	29,202,910	11,226,156	8,271,382	8,633,164	345,341	612,841	67,013	47,013
Total	**$121,584,231**	**$47,188,127**	**$34,150,840**	**$35,881,745**	**$1,254,430**	**$2,633,749**	**$291,751**	**$183,589**
YEAR—1981								
First Quarter	$ 25,682,789	$10,110,046	$ 7,089,319	$ 7,546,365	$ 296,607	$ 544,260	$ 62,824	$ 33,368
Second Quarter	26,237,122	9,710,858	7,438,965	8,162,872	289,770	538,458	56,853	39,346
Third Quarter	31,854,949	12,784,247	9,067,498	8,996,668	289,742	612,061	56,506	48,227
Fourth Quarter	27,226,313	10,219,306	7,729,540	8,324,188	292,572	552,528	62,371	45,808
Total	**$111,001,173**	**$42,824,457**	**$31,325,322**	**$33,030,093**	**$1,168,691**	**$2,247,307**	**$238,554**	**$166,749**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary. r Revised.

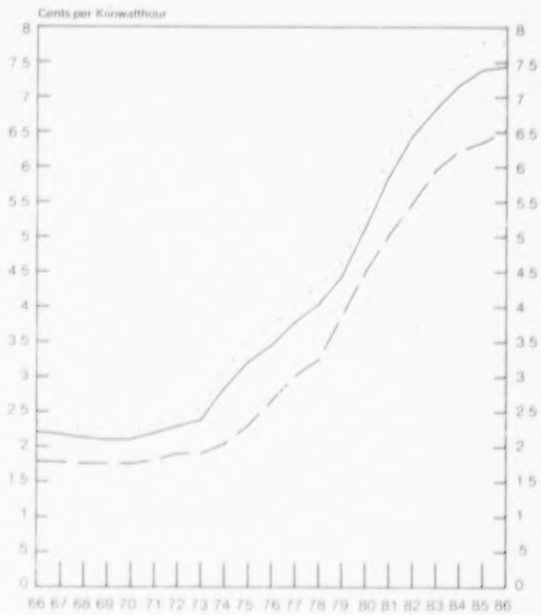
CHART VIII-C

AVERAGE REVENUES PER KWH SOLD

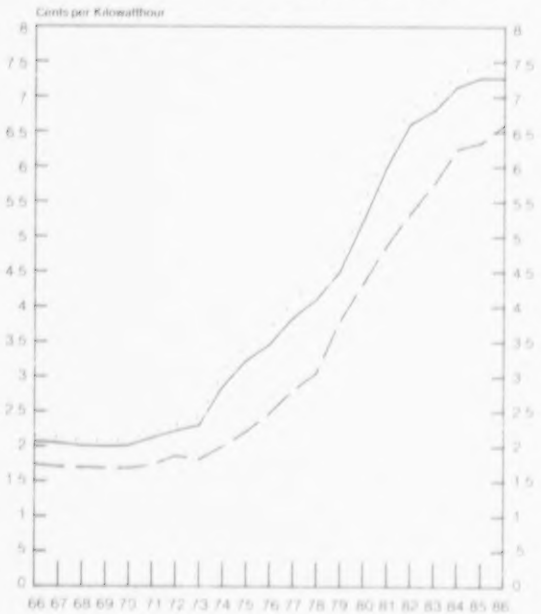
TOTAL ULTIMATE CUSTOMERS



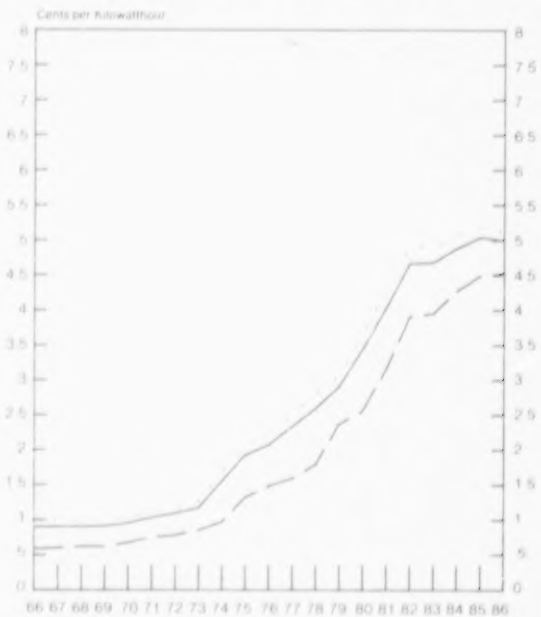
RESIDENTIAL CUSTOMERS



COMMERCIAL CUSTOMERS



INDUSTRIAL CUSTOMERS



Investor Owned . . . . . Total Industry _____ Non-Investor Owned — — —

Based on sales data in Tables 38 and 39, page 44, and revenue data in Tables 56 and 57, page 64.

TABLE 62

AVERAGE REVENUES PER KILOWATTHOUR SOLD TOTAL ELECTRIC UTILITY INDUSTRY

CENTS PER KILOWATTHOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1986p	**7.44¢**	**7.26¢**	**4.99¢**	**10.10¢**	**5.22¢**	**6.63¢**	**6.49¢**
1985r	7.39	7.27	5.04	10.08	5.09	6.66	6.47
1984	7.17	7.14	4.88	9.69	5.08	6.75	6.27
1983	6.83	6.80	4.68	9.50	5.00	6.90	6.00
1982	6.44	6.61	4.66	8.81	4.72	6.80	5.79
1981	5.86	6.00	4.03	7.96	4.18	5.67	5.16
1980	5.12	5.22	3.44	7.02	3.75	4.86	4.49
1979	4.43	4.50	2.91	6.21	3.06	4.43	3.82
1978	4.03	4.10	2.59	5.74	2.73	3.92	3.46
1977	3.78	3.84	2.33	5.39	2.69	3.46	3.21
1976	3.45	3.46	2.07	5.03	2.44	3.78	2.89
1975	3.21	3.23	1.92	4.74	2.24	3.72	2.70
1974	2.83	2.85	1.55	4.31	1.92	3.43	2.30
1973	2.38	2.30	1.17	3.83	1.47	2.20	1.86
1972	2.29	2.22	1.09	3.69	1.37	1.92	1.77
1971	2.19	2.12	1.03	3.53	1.29	1.72	1.69
1970	2.10	2.01	0.95	3.38	1.20	1.49	1.59
1969	2.09	1.99	0.91	3.25	1.16	1.39	1.54
1968	2.12	2.00	0.90	3.18	1.18	1.35	1.55
1967	2.17	2.04	0.90	3.12	1.19	1.33	1.56
1966	2.20	2.06	0.89	3.05	1.24	1.31	1.56

Based on sales data in Table 38 and revenue data in Table 56. p Preliminary. r Revised.

TABLE 63

AVERAGE REVENUES PER KILOWATTHOUR SOLD INVESTOR-OWNED ELECTRIC UTILITIES

CENTS PER KILOWATTHOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1986p	**7.78¢**	**7.40¢**	**5.12¢**	**11.38¢**	**5.43¢**	**6.94¢**	**6.70¢**
1985r	7.79	7.47	5.20	11.22	5.25	7.00	6.72
1984	7.53	7.33	5.07	10.78	5.26	6.97	6.52
1983	7.15	7.04	4.90	10.13	5.22	6.55	6.27
1982	6.81	6.86	4.91	9.54	4.80	6.77	6.10
1981	6.19	6.28	4.29	8.55	4.36	6.20	5.45
1980	5.36	5.47	3.68	7.58	3.95	5.17	4.72
1979	4.63	4.68	3.06	6.60	3.33	3.80	3.99
1978	4.31	4.36	2.80	6.18	2.96	3.59	3.70
1977	4.06	4.10	2.52	5.79	2.90	3.68	3.44
1976	3.73	3.69	2.23	5.43	2.69	3.82	3.11
1975	3.51	3.46	2.09	5.14	2.51	3.79	2.94
1974	3.09	3.05	1.70	4.66	2.17	3.48	2.50
1973	2.54	2.42	1.26	4.12	1.61	2.22	1.97
1972	2.42	2.30	1.17	3.95	1.50	1.94	1.86
1971	2.32	2.21	1.11	3.78	1.42	1.73	1.78
1970	2.22	2.09	1.03	3.62	1.33	1.51	1.68
1969	2.21	2.06	0.99	3.51	1.29	1.40	1.63
1968	2.25	2.08	0.98	3.41	1.31	1.36	1.64
1967	2.31	2.12	0.99	3.36	1.32	1.34	1.66
1966	2.34	2.14	0.99	3.30	1.37	1.32	1.67

Based on sales data in Table 39 and revenue data in Table 57. p Preliminary. r Revised.

TABLE 64

AVERAGE ANNUAL REVENUE PER CUSTOMER

Year	TOTAL ELECTRIC UTILITY INDUSTRY Total Ultimate Customers	Residential	Commercial	Year	INVESTOR-OWNED ELECTRIC UTILITIES Total Ultimate Customers	Residential	Commercial
1986p	**$1,487.42**	**$672.01**	**$4,131.38**	**1986p**	**$1,553.59**	**$671.58**	**$4,547.27**
1985r	1,481.57	658.11	4,080.42	1985r	1,555.15	661.10	4,522.66
1984	1,452.62	643.75	3,939.57	1984	1,511.99	640.47	4,346.35
1983	1,348.80	601.77	3,660.14	1983	1,397.10	599.44	4,011.41
1982	1,285.29	563.09	3,452.36	1982	1,338.79	562.54	3,867.11
1981	1,188.44	517.39	3,206.52	1981	1,239.87	514.38	3,499.79
1980	1,040.22	461.81	2,848.00	1980	1,083.26	457.29	3,022.55
1979	897.17	391.30	2,394.04	1979	928.41	387.34	2,555.09
1978	807.12	356.74	2,176.91	1978	858.50	363.56	2,384.37
1977	739.86	328.99	2,031.41	1977	789.43	336.24	2,234.30
1976	646.33	288.39	1,754.26	1976	692.11	297.14	1,942.05
1975	579.03	262.26	1,579.55	1975	626.39	275.86	1,763.39
1974	493.43	223.73	1,327.40	1974	534.25	234.33	1,474.97
1973	408.14	192.35	1,096.55	1973	433.66	197.38	1,197.68
1972	371.01	176.39	988.78	1972	391.66	179.49	1,071.15
1971	336.46	161.49	888.75	1971	354.57	163.64	961.77
1970	307.36	148.58	803.54	1970	321.42	149.42	861.21
1969	285.99	137.45	735.27	1969	298.71	138.06	784.21
1968	269.59	128.53	694.31	1968	281.36	128.95	739.04
1967	254.90	120.85	652.20	1967	264.84	120.93	688.26
1966	244.39	115.65	620.21	1966	255.02	116.19	655.03

Based on revenue data in Tables 56 and 57, and average number of customers per year. p Preliminary. r Revised.

TABLE 65A
REVENUE AND USE PER TOTAL ULTIMATE CUSTOMER
BY STATE – YEAR 1986p

Division/State	Total Electric Utility Industry			Investor-Owned Electric Utilities		
	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$1,487.42**	**6.49¢**	**22,925**	**$1,553.59**	**6.70¢**	**23,201**
Maine	1,192.96	6.78	17,605	1,213.45	6.77	17,931
New Hampshire	1,160.33	7.63	15,215	1,222.14	7.62	16,037
Vermont	1,291.15	7.73	16,706	1,349.55	7.65	17,652
Massachusetts	1,275.61	7.73	16,507	1,272.57	7.71	16,515
Rhode Island	1,118.78	7.96	14,056	1,122.17	7.95	14,111
Connecticut	1,532.30	8.38	18,283	1,525.85	8.46	18,039
New England	**1,308.32**	**7.80**	**16,769**	**1,317.84**	**7.81**	**16,876**
New York	1,498.65	8.81	17,012	1,422.16	9.52	14,945
New Jersey	1,700.49	9.37	18,145	1,709.78	9.38	18,233
Pennsylvania	1,550.25	7.46	20,790	1,582.60	7.44	21,276
Middle Atlantic	**1,557.94**	**8.42**	**18,507**	**1,535.33**	**8.67**	**17,710**
Ohio	1,413.67	5.87	24,093	1,705.00	5.83	29,232
Indiana	1,599.83	6.15	26,018	1,734.42	6.02	28,816
Illinois	1,677.51	7.64	21,970	1,705.01	7.59	22,456
Michigan	1,332.67	6.91	19,275	1,371.80	6.95	19,733
Wisconsin	1,167.27	5.78	20,191	1,196.63	5.78	20,714
East North Central	**1,458.94**	**6.54**	**22,309**	**1,574.19**	**6.52**	**24,150**
Minnesota	1,208.87	5.62	21,513	1,314.39	5.21	25,205
Iowa	1,285.93	6.32	20,333	1,373.88	6.36	21,613
Missouri	1,324.59	6.34	20,880	1,502.28	6.40	23,460
North Dakota	1,277.97	5.85	21,861	1,073.64	5.92	18,130
South Dakota	1,077.12	5.96	18,060	1,139.29	6.43	17,712
Nebraska	1,109.77	5.28	21,021	–	–	–
Kansas	1,483.32	7.06	21,020	1,553.83	6.88	22,598
West North Central	**1,282.15**	**6.14**	**20,894**	**1,409.01**	**6.14**	**22,933**
Delaware	1,614.29	6.52	24,748	1,713.43	6.21	27,587
Maryland	1,550.65	6.38	24,311	1,573.37	6.32	24,887
District of Columbia	2,818.78	6.84	41,239	2,818.78	6.84	41,239
Virginia	1,572.80	5.78	27,198	1,641.38	5.72	28,680
West Virginia	1,255.04	5.04	24,878	1,260.53	5.04	25,015
North Carolina	1,661.52	6.31	26,334	1,837.75	6.02	30,547
South Carolina	1,841.22	5.55	33,202	2,125.35	5.57	38,153
Georgia	1,516.33	5.83	26,024	1,864.68	5.74	32,481
Florida	1,470.04	7.24	20,311	1,496.97	7.16	20,903
South Atlantic	**1,566.69**	**6.28**	**24,947**	**1,668.55**	**6.18**	**27,001**
Kentucky	1,628.96	5.12	31,791	1,540.55	4.60	33,473
Tennessee	1,728.10	5.32	32,513	1,667.03	4.42	37,715
Alabama	1,676.52	5.68	29,492	1,827.32	5.90	30,948
Mississippi	1,545.09	6.24	24,751	1,819.12	6.41	28,368
East South Central	**1,659.80**	**5.49**	**30,241**	**1,718.69**	**5.46**	**31,452**
Arkansas	1,426.47	6.82	20,904	1,596.85	6.60	24,198
Louisiana	2,016.22	6.18	32,636	2,076.58	5.54	37,459
Oklahoma	1,386.70	6.18	22,445	1,498.95	5.84	25,669
Texas	1,689.07	5.69	29,661	1,890.23	5.52	34,235
West South Central	**1,675.62**	**5.91**	**28,351**	**1,847.39**	**5.62**	**32,855**
Montana	1,143.04	3.79	30,167	1,012.46	4.12	24,557
Idaho	1,307.44	3.74	34,985	1,347.65	3.66	36,830
Wyoming	1,966.94	4.58	42,923	1,873.11	3.98	47,099
Colorado	1,058.59	5.98	17,702	1,080.59	6.00	18,006
New Mexico	1,409.79	7.34	19,206	1,438.72	7.30	19,698
Arizona	1,781.31	7.44	23,956	1,862.19	8.19	22,743
Utah	1,479.49	6.54	22,624	1,571.98	6.89	22,814
Nevada	1,527.39	5.81	26,308	1,529.86	6.22	24,588
Mountain	**1,421.81**	**5.94**	**23,952**	**1,438.29**	**6.02**	**23,896**
Washington	1,192.81	3.16	37,799	1,102.73	4.59	24,005
Oregon	1,264.51	4.38	28,871	1,274.79	4.94	25,810
California	1,343.03	7.84	17,141	1,374.29	8.54	16,085
Pacific	**1,314.67**	**6.22**	**21,122**	**1,340.80**	**7.57**	**17,705**
Alaska	1,761.39	9.35	18,840	1,425.20	7.19	19,831
Hawaii	1,685.49	8.00	21,073	1,685.49	8.00	21,073
Alaska & Hawaii	**1,714.68**	**8.48**	**20,214**	**1,674.41**	**7.97**	**21,020**

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TABLE 65B
REVENUE AND USE PER TOTAL ULTIMATE CUSTOMER
BY STATE—YEAR 1985r

Division/State	Total Electric Utility Industry			Investor-Owned Electric Utilities		
	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$1,481.57**	**6.47¢**	**22,903**	**$1,555.15**	**6.72¢**	**23,149**
Maine	1,193.81	6.88	17,359	1,213.23	6.86	17,688
New Hampshire	1,212.66	8.01	15,145	1,281.99	8.00	16,035
Vermont	1,185.62	7.11	16,673	1,228.22	6.98	17,605
Massachusetts	1,327.34	8.27	16,051	1,333.80	8.30	16,066
Rhode Island	1,154.35	8.40	13,744	1,157.77	8.39	13,800
Connecticut	1,614.45	9.03	17,871	1,607.19	9.11	17,632
New England	**1,353.82**	**8.25**	**16,415**	**1,367.98**	**8.28**	**16,529**
New York	1,531.38	9.09	16,848	1,454.20	9.86	14,755
New Jersey	1,702.99	9.57	17,798	1,712.60	9.57	17,887
Pennsylvania	1,487.37	7.24	20,552	1,519.28	7.22	21,041
Middle Atlantic	**1,552.25**	**8.49**	**18,281**	**1,529.70**	**8.75**	**17,472**
Ohio	1,400.65	5.74	24,400	1,690.08	5.70	29,641
Indiana	1,519.43	5.85	25,991	1,651.35	5.72	28,871
Illinois	1,555.80	7.21	21,587	1,579.27	7.16	22,062
Michigan	1,290.50	6.80	18,970	1,326.60	6.84	19,409
Wisconsin	1,144.21	5.75	19,903	1,173.34	5.74	20,430
East North Central	**1,402.26**	**6.32**	**22,197**	**1,512.66**	**6.29**	**24,047**
Minnesota	1,155.66	5.39	21,456	1,262.18	5.00	25,226
Iowa	1,284.76	6.47	19,860	1,375.95	6.52	21,089
Missouri	1,195.74	5.88	20,324	1,352.48	5.91	22,873
North Dakota	1,301.04	5.84	22,279	1,093.62	5.91	18,519
South Dakota	1,053.63	5.92	17,807	1,110.04	6.40	17,345
Nebraska	1,099.97	5.32	20,689	--	--	--
Kansas	1,353.34	6.49	20,849	1,410.25	6.26	22,536
West North Central	**1,213.13**	**5.89**	**20,593**	**1,325.23**	**5.86**	**22,631**
Delaware	1,732.79	7.28	23,803	1,839.32	6.93	26,552
Maryland	1,487.25	6.33	23,482	1,509.88	6.28	24,057
District of Columbia	2,824.06	7.07	39,946	2,824.06	7.07	39,946
Virginia	1,474.14	5.79	25,482	1,539.43	5.73	26,874
West Virginia	1,212.17	4.83	25,100	1,217.59	4.82	25,242
North Carolina	1,518.33	5.98	25,407	1,699.59	5.76	29,518
South Carolina	1,754.02	5.47	32,049	2,008.54	5.47	36,692
Georgia	1,453.55	5.80	25,064	1,801.05	5.74	31,401
Florida	1,541.97	7.64	20,184	1,569.17	7.55	20,791
South Atlantic	**1,531.30**	**6.32**	**24,221**	**1,633.96**	**6.23**	**26,233**
Kentucky	1,600.02	4.95	32,298	1,547.96	4.48	34,543
Tennessee	1,649.49	4.99	33,051	1,711.78	4.55	37,582
Alabama	1,651.21	5.64	29,251	1,792.83	5.87	30,527
Mississippi	1,414.50	5.81	24,350	1,655.13	5.94	27,862
East South Central	**1,598.74**	**5.26**	**30,400**	**1,674.58**	**5.31**	**31,563**
Arkansas	1,390.29	6.18	22,486	1,567.72	5.95	26,326
Louisiana	2,058.40	6.17	33,344	2,126.90	5.54	38,368
Oklahoma	1,342.94	5.88	22,832	1,455.58	5.58	26,086
Texas	1,907.69	6.30	30,302	2,147.06	6.13	35,016
West South Central	**1,806.88**	**6.22**	**29,045**	**2,005.96**	**5.95**	**33,711**
Montana	1,071.44	3.56	30,100	932.03	3.83	24,320
Idaho	1,320.68	3.63	36,402	1,361.61	3.56	38,283
Wyoming	1,831.86	4.26	42,965	1,738.71	3.70	46,962
Colorado	1,069.22	6.04	17,716	1,106.46	6.13	18,062
New Mexico	1,403.45	7.19	19,529	1,427.64	7.17	19,915
Arizona	1,747.32	7.16	24,414	1,794.31	7.80	23,009
Utah	1,499.78	6.42	23,345	1,595.00	6.76	23,595
Nevada	1,519.13	5.67	26,788	1,519.09	6.08	24,972
Mountain	**1,403.56**	**5.76**	**24,365**	**1,417.46**	**5.84**	**24,278**
Washington	1,234.97	3.07	40,242	1,126.77	4.45	25,293
Oregon	1,311.54	4.42	29,702	1,318.05	4.99	26,421
California	1,360.85	7.78	17,490	1,425.14	8.62	16,538
Pacific	**1,338.43**	**6.13**	**21,835**	**1,388.35**	**7.60**	**18,263**
Alaska	1,563.89	8.32	18,798	1,634.23	8.01	20,414
Hawaii	2,057.12	10.14	20,296	2,057.12	10.14	20,296
Alaska & Hawaii	**1,863.52**	**9.46**	**19,708**	**2,038.86**	**10.04**	**20,301**

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TABLE 66A

REVENUE AND USE PER RESIDENTIAL CUSTOMER

BY STATE – YEAR 1986p

Division/State	Total Electric Utility Industry			Investor-Owned Electric Utilities		
	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$672.01**	**7.44¢**	**9,038**	**$671.58**	**7.78¢**	**8,627**
Maine	565.66	8.18	6,919	569.58	8.19	6,956
New Hampshire	607.83	8.55	7,108	620.89	8.64	7,189
Vermont	640.30	7.91	8,094	653.85	7.84	8,338
Massachusetts	534.67	8.33	6,419	535.18	8.43	6,351
Rhode Island	497.56	8.69	5,728	497.66	8.68	5,733
Connecticut	691.30	9.29	7,439	696.75	9.34	7,458
New England	**585.50**	**8.59**	**6,814**	**590.39**	**8.67**	**6,810**
New York	593.82	10.54	5,632	599.24	10.83	5,533
New Jersey	709.35	10.67	6,650	709.80	10.69	6,640
Pennsylvania	688.99	8.87	7,765	688.83	8.88	7,759
Middle Atlantic	**649.72**	**9.90**	**6,560**	**651.94**	**10.03**	**6,499**
Ohio	584.13	7.67	7,614	675.95	7.80	8,671
Indiana	725.18	7.28	9,961	697.67	7.22	9,664
Illinois	701.13	9.52	7,363	682.27	9.61	7,102
Michigan	500.56	7.59	6,596	506.31	7.62	6,646
Wisconsin	550.83	6.83	8,068	528.20	6.91	7,646
East North Central	**610.44**	**7.95**	**7,681**	**624.68**	**8.05**	**7,765**
Minnesota	569.57	6.78	8,397	465.89	6.45	7,221
Iowa	684.27	7.73	8,848	646.24	8.15	7,933
Missouri	697.32	7.14	9,760	708.26	7.36	9,621
North Dakota	695.74	6.11	11,389	572.22	6.22	9,203
South Dakota	666.21	6.59	10,113	585.10	7.41	7,897
Nebraska	582.47	5.86	9,933	–	–	–
Kansas	707.59	8.24	8,588	715.03	8.14	8,785
West North Central	**654.70**	**7.11**	**9,214**	**629.06**	**7.40**	**8,499**
Delaware	707.53	8.37	8,455	720.97	8.55	8,437
Maryland	735.25	7.25	10,139	726.64	7.21	10,083
District of Columbia	496.91	6.83	7,279	496.91	6.83	7,279
Virginia	813.27	6.67	12,186	817.22	6.63	12,322
West Virginia	584.18	6.10	9,579	585.07	6.09	9,601
North Carolina	851.98	7.30	11,666	861.40	7.15	12,051
South Carolina	886.71	7.14	12,424	908.10	7.10	12,791
Georgia	720.54	6.55	11,006	716.13	6.70	10,692
Florida	903.21	7.97	11,330	916.75	8.00	11,456
South Atlantic	**816.97**	**7.26**	**11,249**	**819.28**	**7.26**	**11,281**
Kentucky	643.88	5.86	10,981	617.64	5.75	10,739
Tennessee	764.03	5.21	14,654	786.40	4.94	15,929
Alabama	776.87	6.50	11,943	798.09	6.97	11,457
Mississippi	780.60	6.70	11,648	810.75	6.95	11,670
East South Central	**740.84**	**5.91**	**12,538**	**734.62**	**6.50**	**11,303**
Arkansas	777.99	7.86	9,892	773.82	7.79	9,932
Louisiana	898.74	7.08	12,690	856.02	6.66	12,853
Oklahoma	740.77	7.23	10,244	721.59	6.94	10,398
Texas	791.77	6.84	11,582	833.84	6.86	12,161
West South Central	**800.70**	**7.01**	**11,422**	**818.35**	**6.89**	**11,872**
Montana	510.28	5.17	9,868	447.68	5.00	8,961
Idaho	637.49	4.53	14,081	633.70	4.44	14,270
Wyoming	538.41	6.18	8,708	457.43	5.82	7,866
Colorado	474.96	7.04	6,744	446.16	7.31	6,102
New Mexico	530.70	8.90	5,966	537.59	8.80	6,107
Arizona	870.49	8.68	10,024	877.37	9.37	9,366
Utah	586.39	7.81	7,506	627.28	8.56	7,327
Nevada	706.69	6.59	10,725	716.56	6.69	10,708
Mountain	**628.36**	**7.19**	**8,741**	**613.94**	**7.27**	**8,446**
Washington	591.97	3.92	15,112	654.64	4.92	13,307
Oregon	585.23	4.73	12,380	589.26	4.98	11,840
California	484.92	7.94	6,104	502.53	8.26	6,082
Pacific	**509.14**	**6.40**	**7,954**	**524.32**	**7.21**	**7,269**
Alaska	879.05	9.90	8,883	771.26	7.32	10,537
Hawaii	632.03	9.28	6,808	632.03	9.28	6,808
Alaska & Hawaii	**726.75**	**9.56**	**7,603**	**637.80**	**9.16**	**6,962**

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TABLE 66B
REVENUE AND USE PER RESIDENTIAL CUSTOMER
BY STATE – YEAR 1985r

Division/State	Total Electric Utility Industry			Investor-Owned Electric Utilities		
	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$658.11**	**7.39¢**	**8,906**	**$661.10**	**7.79¢**	**8,487**
Maine	551.98	8.09	6,825	554.79	8.08	6,863
New Hampshire	622.74	8.92	6,980	635.58	8.99	7,068
Vermont	592.59	7.23	8,196	596.65	7.09	8,418
Massachusetts	553.35	8.92	6,201	553.34	9.01	6,139
Rhode Island	508.04	9.13	5,562	507.84	9.12	5,568
Connecticut	720.25	9.98	7,219	726.19	10.04	7,235
New England	**599.14**	**9.03**	**6,633**	**603.77**	**9.11**	**6,629**
New York	600.18	10.86	5,525	605.69	11.16	5,428
New Jersey	708.02	11.00	6,437	708.66	11.03	6,428
Pennsylvania	640.00	8.55	7,489	639.85	8.55	7,484
Middle Atlantic	**635.77**	**9.98**	**6,373**	**638.41**	**10.11**	**6,315**
Ohio	568.65	7.67	7,412	658.04	7.79	8,442
Indiana	669.67	6.95	9,636	643.66	6.89	9,347
Illinois	648.19	9.01	7,191	630.18	9.08	6,941
Michigan	475.70	7.38	6,449	480.73	7.40	6,499
Wisconsin	538.65	6.73	8,003	516.48	6.81	7,584
East North Central	**578.67**	**7.72**	**7,499**	**592.04**	**7.81**	**7,582**
Minnesota	537.37	6.49	8,284	439.46	6.17	7,123
Iowa	669.48	7.69	8,709	632.32	8.10	7,808
Missouri	616.86	6.57	9,382	623.78	6.73	9,269
North Dakota	712.24	6.15	11,588	585.79	6.26	9,363
South Dakota	657.85	6.52	10,083	577.77	7.34	7,874
Nebraska	579.31	5.90	9,819	–	–	–
Kansas	635.83	7.50	8,478	639.49	7.34	8,712
West North Central	**611.29**	**6.77**	**9,036**	**580.58**	**6.97**	**8,328**
Delaware	737.29	9.31	7,922	751.30	9.50	7,905
Maryland	687.95	7.27	9,458	679.89	7.23	9,405
District of Columbia	473.02	6.93	6,828	473.02	6.93	6,828
Virginia	742.02	6.65	11,161	745.35	6.61	11,273
West Virginia	542.27	5.93	9,145	543.10	5.93	9,166
North Carolina	769.44	6.99	11,011	777.29	6.84	11,363
South Carolina	816.29	7.01	11,640	833.65	6.96	11,972
Georgia	666.82	6.45	10,337	663.88	6.63	10,019
Florida	932.49	8.44	11,052	947.34	8.47	11,190
South Atlantic	**783.39**	**7.35**	**10,661**	**787.29**	**7.37**	**10,689**
Kentucky	612.87	5.82	10,532	592.10	5.79	10,232
Tennessee	690.84	4.87	14,181	782.56	5.07	15,443
Alabama	726.45	6.39	11,365	752.43	6.98	10,781
Mississippi	699.32	6.18	11,310	719.29	6.35	11,324
East South Central	**682.62**	**5.66**	**12,058**	**687.81**	**6.39**	**10,757**
Arkansas	729.21	7.47	9,745	724.31	7.40	9,784
Louisiana	871.08	6.92	12,595	829.67	6.50	12,757
Oklahoma	701.14	6.61	10,610	682.99	6.34	10,771
Texas	885.43	7.50	11,804	935.36	7.54	12,409
West South Central	**843.52**	**7.29**	**11,577**	**867.06**	**7.20**	**12,042**
Montana	483.65	4.70	10,298	423.84	4.53	9,364
Idaho	649.20	4.30	15,099	645.48	4.22	15,302
Wyoming	519.30	5.67	9,166	441.23	5.33	8,279
Colorado	477.16	6.92	6,895	452.39	7.23	6,253
New Mexico	524.86	8.69	6,038	531.48	8.60	6,182
Arizona	853.30	8.25	10,345	843.07	8.84	9,537
Utah	600.82	7.78	7,723	642.75	8.53	7,539
Nevada	724.41	6.42	11,277	734.67	6.52	11,262
Mountain	**623.00**	**6.87**	**9,064**	**608.23**	**6.95**	**8,756**
Washington	624.64	3.80	16,434	703.96	4.80	14,674
Oregon	619.31	4.68	13,230	622.84	4.93	12,634
California	488.81	7.78	6,285	515.10	8.24	6,252
Pacific	**520.10**	**6.21**	**8,376**	**542.42**	**7.12**	**7,620**
Alaska	807.27	8.86	9,116	864.34	8.09	10,685
Hawaii	756.07	11.36	6,656	756.07	11.36	6,656
Alaska & Hawaii	**776.16**	**10.18**	**7,621**	**760.64**	**11.14**	**6,826**

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TABLE 67A
REVENUE AND USE PER COMMERCIAL CUSTOMER
BY STATE—YEAR 1986p

Division/State	Total Electric Utility Industry			Investor-Owned Electric Utilities		
	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$4,131.38**	**7.26¢**	**56,930**	**$4,547.27**	**7.40¢**	**61,445**
Maine	2,884.19	7.75	37,230	2,968.46	7.76	38,271
New Hampshire	2,177.66	7.89	27,600	2,221.86	7.91	28,096
Vermont	2,484.21	8.18	30,359	2,730.52	8.14	33,558
Massachusetts	4,915.14	7.75	63,440	5,115.52	7.68	66,607
Rhode Island	4,057.57	7.73	52,483	4,083.52	7.73	52,847
Connecticut	6,683.22	8.33	80,219	6,858.08	8.33	82,360
New England	**4,564.50**	**7.93**	**57,544**	**4,739.99**	**7.90**	**60,000**
New York	5,782.68	10.27	56,295	5,881.75	10.36	56,767
New Jersey	5,916.30	9.40	62,911	5,974.12	9.40	63,554
Pennsylvania	3,975.62	7.77	51,196	4,031.67	7.77	51,876
Middle Atlantic	**5,257.22**	**9.36**	**56,180**	**5,339.37**	**9.40**	**56,779**
Ohio	4,000.08	7.11	56,264	4,875.82	7.14	68,327
Indiana	3,414.54	6.10	56,011	3,597.09	6.00	59,969
Illinois	5,407.29	8.20	65,977	5,472.22	8.23	66,521
Michigan	4,022.13	7.90	50,930	4,045.38	8.06	50,197
Wisconsin	3,037.13	6.34	47,875	3,504.53	6.37	54,985
East North Central	**4,145.37**	**7.35**	**56,390**	**4,519.34**	**7.40**	**61,059**
Minnesota	2,338.49	6.07	38,526	2,104.47	5.78	36,421
Iowa	2,605.24	6.99	37,265	2,819.95	7.19	39,208
Missouri	4,305.05	6.37	67,562	5,114.30	6.41	79,819
North Dakota	2,396.38	6.57	36,448	1,899.99	6.49	29,282
South Dakota	2,573.73	6.49	39,685	2,753.39	6.79	40,578
Nebraska	2,333.95	5.69	41,008	–	–	–
Kansas	3,934.99	7.09	55,463	4,860.88	6.81	71,331
West North Central	**3,156.62**	**6.48**	**48,738**	**3,620.46**	**6.54**	**55,378**
Delaware	4,900.29	6.79	72,128	5,489.50	6.63	82,841
Maryland	4,361.02	7.22	60,361	4,394.59	7.21	60,956
District of Columbia	12,760.89	7.38	172,916	12,760.89	7.38	172,916
Virginia	4,486.80	5.93	75,693	4,818.06	5.87	82,025
West Virginia	2,885.03	5.65	51,052	2,901.96	5.65	51,393
North Carolina	3,890.86	6.86	56,677	3,662.83	6.15	59,572
South Carolina	3,415.08	6.21	54,984	3,752.83	6.18	60,678
Georgia	4,668.18	6.61	70,658	5,411.70	6.69	80,948
Florida	4,386.75	6.86	63,948	4,746.61	6.74	70,411
South Atlantic	**4,301.91**	**6.65**	**64,696**	**4,560.26**	**6.50**	**70,195**
Kentucky	2,792.35	5.75	48,552	3,120.17	5.65	55,270
Tennessee	1,991.06	6.02	33,076	3,615.87	5.16	70,112
Alabama	3,148.38	6.76	46,565	3,739.92	6.87	54,472
Mississippi	3,493.38	7.03	49,663	4,157.02	7.04	59,020
East South Central	**2,769.92**	**6.38**	**43,412**	**3,612.63**	**6.46**	**55,928**
Arkansas	3,301.40	6.77	48,740	3,670.70	6.46	56,806
Louisiana	4,809.59	7.45	64,582	4,811.62	6.49	74,162
Oklahoma	3,361.93	6.44	52,205	3,958.19	6.12	64,708
Texas	3,931.47	6.13	64,086	4,485.83	5.96	75,254
West South Central	**3,923.03**	**6.40**	**61,253**	**4,405.86**	**6.09**	**72,305**
Montana	2,131.92	4.65	45,873	2,068.67	4.34	47,714
Idaho	2,789.99	4.22	66,174	2,815.03	4.17	67,520
Wyoming	3,067.87	5.55	55,281	2,422.60	4.99	48,523
Colorado	3,559.90	5.81	61,302	4,489.14	5.69	78,853
New Mexico	3,846.59	8.19	46,967	4,602.22	8.40	54,785
Arizona	6,031.75	7.96	75,809	6,082.59	8.64	70,394
Utah	5,344.45	6.97	76,669	5,716.24	7.70	74,223
Nevada	3,505.10	6.45	54,325	3,559.90	6.64	53,615
Mountain	**4,029.93**	**6.49**	**62,075**	**4,284.39**	**6.53**	**65,629**
Washington	2,844.25	3.73	76,179	3,488.49	4.83	72,243
Oregon	3,192.36	4.89	65,229	3,404.71	5.36	63,578
California	4,306.72	8.82	48,837	4,577.97	9.25	49,500
Pacific	**4,012.34**	**7.44**	**53,921**	**4,372.71**	**8.29**	**52,721**
Alaska	6,152.96	8.84	69,607	3,321.06	10.53	31,535
Hawaii	3,737.56	9.19	40,660	3,737.56	9.19	40,660
Alaska & Hawaii	**4,677.93**	**9.01**	**51,930**	**3,718.21**	**9.24**	**40,236**

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TABLE 67B

REVENUE AND USE PER COMMERCIAL CUSTOMER

BY STATE—YEAR 1985r

Division/State	Total Electric Utility Industry			Investor-Owned Electric Utilities		
	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$4,080.42**	**7.27¢**	**56,109**	**$4,522.66**	**7.47¢**	**60,517**
Maine	2,743.51	7.79	35,218	2,815.14	7.79	36,128
New Hampshire	2,291.19	8.33	27,513	2,327.03	8.34	27,916
Vermont	2,133.96	7.56	28,244	2,459.54	7.46	32,981
Massachusetts	5,171.09	8.32	62,188	5,432.71	8.32	65,262
Rhode Island	4,243.01	8.22	51,624	4,270.37	8.22	51,979
Connecticut	6,972.77	8.98	77,689	7,159.28	8.98	79,712
New England	**4,726.00**	**8.44**	**56,008**	**4,928.82**	**8.44**	**58,485**
New York	5,977.68	10.75	55,612	6,081.91	10.84	56,087
New Jersey	5,829.79	9.57	60,943	5,888.44	9.56	61,585
Pennsylvania	3,761.64	7.60	49,526	3,814.68	7.60	50,184
Middle Atlantic	**5,257.86**	**9.58**	**54,898**	**5,342.18**	**9.63**	**55,492**
Ohio	3,887.93	7.13	54,556	4,739.11	7.15	66,253
Indiana	3,084.51	5.76	53,507	3,244.27	5.67	57,244
Illinois	5,368.74	7.72	69,528	5,431.40	7.73	70,228
Michigan	3,882.67	7.81	49,731	3,899.08	7.95	49,054
Wisconsin	3,013.54	6.32	47,713	3,478.24	6.34	54,833
East North Central	**4,031.06**	**7.17**	**56,219**	**4,395.55**	**7.21**	**60,991**
Minnesota	2,196.00	5.86	37,483	1,975.27	5.57	35,447
Iowa	2,662.85	7.37	36,126	2,882.44	7.58	38,011
Missouri	3,897.46	5.98	65,158	4,614.62	6.00	76,969
North Dakota	2,407.98	6.59	36,523	1,909.19	6.51	29,343
South Dakota	2,531.04	6.45	39,233	2,707.74	6.75	40,115
Nebraska	2,297.73	5.77	39,808	—	—	—
Kansas	3,570.26	6.62	53,931	4,402.50	6.30	69,870
West North Central	**2,966.22**	**6.28**	**47,246**	**3,378.29**	**6.29**	**53,689**
Delaware	5,372.34	7.66	70,140	6,018.35	7.47	80,559
Maryland	4,223.92	7.23	58,456	4,256.44	7.21	59,032
District of Columbia	12,674.65	7.62	166,283	12,674.65	7.62	166,283
Virginia	4,292.77	6.00	71,546	4,609.77	5.95	77,496
West Virginia	2,736.53	5.52	49,567	2,752.57	5.52	49,897
North Carolina	3,308.71	6.06	54,594	3,392.90	5.91	57,424
South Carolina	3,245.82	6.13	52,942	3,586.14	6.11	58,690
Georgia	4,539.13	6.65	68,250	5,263.40	6.74	78,080
Florida	4,659.63	7.39	63,073	5,034.88	7.26	69,344
South Atlantic	**4,215.06**	**6.72**	**62,714**	**4,526.02**	**6.66**	**67,990**
Kentucky	2,716.23	5.76	47,144	3,053.85	5.70	53,585
Tennessee	1,821.88	5.68	32,072	3,724.05	5.28	70,528
Alabama	3,040.82	6.72	45,222	3,622.80	6.88	52,656
Mississippi	3,182.50	6.54	48,671	3,759.72	6.52	57,700
East South Central	**2,618.40**	**6.19**	**42,283**	**3,455.08**	**6.36**	**54,303**
Arkansas	3,092.34	6.41	48,272	3,438.25	6.11	56,261
Louisiana	4,708.88	7.33	64,204	4,710.85	6.39	73,728
Oklahoma	3,235.77	6.17	52,409	3,809.64	5.86	64,961
Texas	4,267.72	6.71	63,563	4,880.60	6.58	74,166
West South Central	**4,089.32**	**6.72**	**60,844**	**4,605.85**	**6.44**	**71,530**
Montana	1,977.33	4.20	47,107	1,915.20	3.90	49,057
Idaho	2,754.68	4.02	68,440	2,779.36	3.98	69,820
Wyoming	2,906.27	5.17	56,259	2,294.86	4.65	49,374
Colorado	3,650.89	6.06	60,257	4,607.71	5.98	77,098
New Mexico	3,803.63	7.97	47,699	4,540.27	8.18	55,516
Arizona	5,701.56	7.65	74,560	5,656.19	8.28	68,315
Utah	5,313.64	6.88	77,258	5,683.78	7.60	74,809
Nevada	3,472.87	6.30	55,123	3,527.96	6.49	54,393
Mountain	**3,933.98**	**6.34**	**62,067**	**4,184.52**	**6.38**	**65,611**
Washington	2,808.84	3.54	79,388	3,392.57	4.60	73,727
Oregon	3,239.93	4.95	65,483	3,452.39	5.41	63,834
California	4,188.03	8.54	49,061	4,533.00	9.04	50,131
Pacific	**3,923.74**	**7.21**	**54,455**	**4,335.42**	**8.13**	**53,340**
Alaska	5,401.82	7.81	69,137	3,812.83	12.10	31,511
Hawaii	4,234.48	11.54	36,681	4,234.48	11.54	36,681
Alaska & Hawaii	**4,691.58**	**9.50**	**49,390**	**4,215.11**	**11.57**	**36,444**

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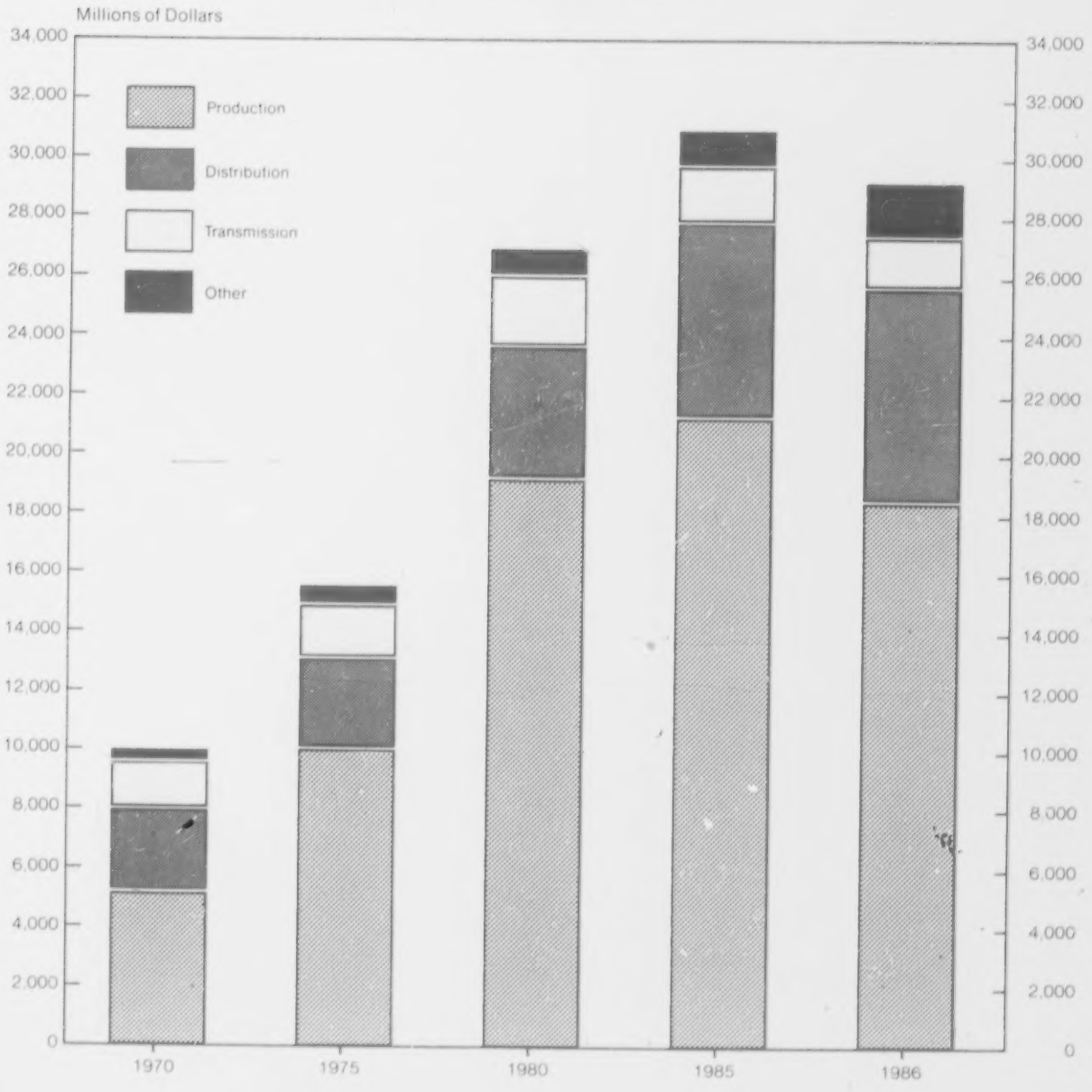
FINANCIAL
SECTION IX

CHART IX-A
CONSTRUCTION EXPENDITURES
INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 69, page 81

TABLE 69

CONSTRUCTION EXPENDITURES INVESTOR-OWNED ELECTRIC UTILITIES

BY TYPE OF ELECTRIC UTILITY PLANT
MILLIONS OF DOLLARS

	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976
Production											
Steam	$ 4,333	$ 4,725	$ 5,569	$ 5,860	$ 7,828	$ 7,221	$ 7,498	$ 7,572	$ 6,664	$ 6,529	$ 5,689
Nuclear	13,426	15,553	17,478	18,208	16,461	12,785	11,045	9,855	8,813	7,273	5,815
Other	724	1,095	893	868	1,050	906	695	854	655	614	460
Total	**18,483**	**21,372**	**23,939**	**24,935**	**25,339**	**20,912**	**19,238**	**18,281**	**16,132**	**14,416**	**11,964**
Transmission	1,761	1,863	2,250	2,371	2,203	2,270	2,353	2,090	1,738	1,687	1,832
Distribution	7,248	6,590	5,899	5,021	4,827	4,606	4,483	4,334	3,875	3,390	2,974
General/Miscellaneous*	1,808	1,266	1,355	1,489	1,233	1,336	937	776	1,192	788	590
Subtotal	**29,299**	**31,091**	**33,443**	**33,816**	**33,602**	**29,124**	**27,011**	**25,481**	**22,937**	**20,281**	**17,360**
Nuclear Fuel	1,724	2,202	1,842	1,749	1,748	1,566	1,324	1,338	1,093	1,016	798
GRAND TOTAL	**$31,023**	**$33,294**	**$35,285**	**$35,565**	**$35,350**	**$30,690**	**$28,335**	**$26,819**	**$24,030**	**$21,297**	**$18,158**
AFUDC included in TOTAL	$ 5,659	$ 6,941	$ 7,923	$ 7,816	$ 6,612	$ 5,358	$ 4,365	$ 3,593	$ 2,717	$ 2,267	$ 1,854

	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966
Production										
Steam	$ 5,062	$ 5,323	$ 4,923	$ 4,306	$ 3,507	$ 2,790	$ 2,227	$ 2,076	$ 1,735	$ 1,294
Nuclear	4,545	3,969	3,270	2,920	2,410	1,641	1,120	679	433	126
Other	487	802	662	691	620	818	550	347	311	220
Total	**10,094**	**10,094**	**8,855**	**7,917**	**6,537**	**5,249**	**3,897**	**3,102**	**2,479**	**1,640**
Transmission	1,771	2,145	1,878	1,749	1,818	1,625	1,555	1,378	1,329	1,161
Distribution	3,075	3,538	3,568	3,192	2,869	2,751	2,511	2,299	2,102	1,851
General/Miscellaneous*	710	880	758	605	633	422	394	339	294	289
Subtotal	**15,650**	**16,702**	**15,059**	**13,463**	**11,857**	**10,047**	**8,357**	**7,118**	**6,204**	**4,941**
Nuclear Fuel	541	490	232	265	361	217	N/A	N/A	N/A	N/A
GRAND TOTAL	**$16,191**	**$17,192**	**$15,291**	**$13,728**	**$12,218**	**$10,264**	**$ 8,357**	**$ 7,118**	**$ 6,204**	**$ 4,941**
AFUDC included in TOTAL	$ 1,676	$ 1,576	$ 1,277	$ 1,078	$ 809	$ 583	$ 398	$ 270	$ 185	$ 126

Note: Total may not equal sum of components due to independent rounding.
This table has been restructured based on data submitted to the Institute. Data, compiled on a 50 state basis, now includes nuclear fuel and reflects the amount of AFUDC in the total.
Construction expenditures are, in general, the gross amounts spent for construction of all kinds, including the acquisition of real estate and all necessary equipment.
The figures include money spent for replacements, additions, and betterments (but not for maintenance of existing plant) as well as for new construction.
**Includes intangible plant.*
N/A Not available.

TABLE 70

COMBINED BALANCE SHEETS – YEAR ENDED DECEMBER 31ST
INVESTOR-OWNED ELECTRIC UTILITIES

INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1986	1985	1984	1983	1982	1981
ASSETS						
Utility Plant:						
Electric	$348,400	$317,392	$277,374	$252,294	$229,590	$214,628
Other	21,698	18,954	18,219	17,745	16,897	16,040
Total Utility Plant	**370,097**	**336,345**	**295,592**	**270,039**	**246,487**	**230,668**
Accumulated Provision for Depreciation and Amortization	102,243	92,567	84,306	77,073	70,014	63,742
Net Utility Plant	**267,854**	**243,778**	**211,285**	**192,967**	**176,473**	**166,926**
Nuclear Fuel	15,009	13,979	11,587	9,421	8,056	7,449
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	6,466	5,461	4,219	3,755	3,591	3,324
Net Nuclear Fuel	**8,543**	**8,518**	**7,368**	**5,665**	**4,465**	**4,125**
Construction Work in Progress	74,978	84,092	95,491	93,619	90,320	76,296
Net Total Utility Plant	**351,375**	**336,389**	**314,145**	**292,250**	**271,258**	**247,347**
Other Property and Investment	11,887	9,557	9,359	8,367	6,656	5,737
Total Current and Accrued Assets	38,824	40,427	37,823	33,196	31,799	28,100
Total Deferred Debits	21,635	16,194	18,065	12,001	7,486	6,532
Total Assets	**$423,722**	**$402,567**	**$379,392**	**$345,814**	**$317,198**	**$287,716**
CAPITALIZATION AND LIABILITIES						
Capitalization:						
Common Capital Stock	$ 51,658	$ 51,556	$ 47,842	$ 44,742	$ 40,491	$ 35,406
Other Paid-In Capital Excluding Retained Earnings*	37,366	34,036	33,886	31,580	27,305	23,838
Retained Earnings*	49,362	43,902	40,423	35,369	30,984	27,511
Total Common Capital Stock Equity	**138,386**	**129,495**	**122,151**	**111,691**	**98,779**	**86,755**
Preferred Stock	27,947	30,614	29,882	29,479	28,616	26,817
Long-Term Debt:						
Mortgage Bonds	115,370	111,763	108,997	104,244	98,998	93,783
Other Long-Term Debt	38,058	37,180	32,696	28,034	24,694	20,780
Total Long-Term Debt	**153,428**	**148,944**	**141,693**	**132,278**	**123,692**	**114,563**
Total Capitalization	**319,761**	**309,052**	**293,727**	**273,448**	**251,088**	**228,136**
Total Other Non-Current Liabilities	5,102	3,278	N/A	N/A	N/A	N/A
Total Current and Accrued Liabilities	40,419	38,718	36,851	33,898	33,356	32,395
Contribution in Aid of Construction	160	156	145	135	127	115
Deferred Income Taxes	35,465	29,853	26,438	21,075	18,310	15,931
Deferred Investment Tax Credits	16,760	15,931	14,136	12,059	10,408	8,271
Other Deferred Credits**	6,055	5,578	8,096	5,199	3,909	2,869
Total Liabilities	**$423,722**	**$402,567**	**$379,392**	**$345,814**	**$317,198**	**$287,716**

Note: Total may not equal sum of components due to independent rounding.
Data comprising "Net Total Utility Plant" has been reformatted to reflect changes made to Schedule VI of the Uniform Statistical Report. Previous years' data have been revised for comparability.
N/A Not Applicable.
**Includes Premium on Common and Preferred Stock.*
***Data for 1984-1981 include Operating Reserves. Beginning 1985 "Total Other Non-Current Liabilities", which includes FERC System of Accounts 227, 228, and 229, is shown as a separate item.*

TABLE 71

COMBINED INCOME STATEMENTS—YEAR ENDED DECEMBER 31ST INVESTOR-OWNED ELECTRIC UTILITIES

INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1986	1985	1984	1983	1982	1981
	ELECTRIC DEPARTMENT ONLY					
Operating Revenues	**$127,552**	**$125,547**	**$120,090**	**$109,446**	**$101,693**	**$ 94,270**
Operating Expenses:						
Operation	57,975	61,109	59,679	55,315	54,118	52,563
Maintenance	9,688	9,191	8,482	7,577	7,124	6,279
Depreciation and Depletion	10,623	9,736	8,792	8,016	7,301	6,690
Amortization Charged to Operation	130	196	139	117	103	103
Property Losses Charged to Operation	412	370	318	237	184	100
Taxes Other Than Income Taxes	9,390	8,902	8,507	7,790	7,151	6,565
Federal Income Taxes	5,877	4,637	3,857	2,845	2,853	1,704
State Income Taxes	807	712	705	566	715	379
Deferred Income Taxes:						
Property Related	4,899	4,069	3,283	2,746	1,973	1,656
Non-Property Related	352	464	1,418	1,748	(386)	552
Investment Tax Credit Adjustments	1,209	1,964	2,113	1,828	2,298	1,333
Total Operating Expenses	**101,360**	**101,350**	**97,294**	**88,788**	**83,435**	**77,922**
Operating Income	$ 26,191	$ 24,197	$ 22,796	$ 20,658	$ 18,258	$ 16,347
	ALL DEPARTMENTS					
Operating Revenues	**$144,939**	**$144,642**	**$139,499**	**$129,785**	**$121,062**	**$111,506**
Operating Expenses:						
Operation	71,075	75,931	74,787	71,947	69,982	66,553
Maintenance	10,189	9,666	8,932	8,012	7,556	6,728
Depreciation and Depletion	11,416	10,447	9,476	8,609	7,856	7,221
Amortization Charged to Operation	274	295	228	187	122	120
Property Losses Charged to Operation	452	382	339	280	186	101
Taxes Other Than Income Taxes	10,372	9,880	9,477	8,746	8,044	7,451
Federal Income Taxes	6,122	5,000	4,363	2,973	3,035	1,854
State Income Taxes	843	796	806	621	755	405
Deferred Income Taxes:						
Property Related	5,062	4,209	3,351	2,894	2,047	1,736
Non-Property Related	446	483	1,345	1,854	(269)	573
Investment Tax Credit Adjustments*	1,244	2,027	2,218	1,911	2,377	1,386
Total Operating Expenses	**117,494**	**119,115**	**115,325**	**108,036**	**101,691**	**94,127**
Operating Income	27,444	25,530	24,174	21,749	19,371	17,378
Other Income (Non-Operating) Net	2,459	2,313r	2,185	1,736	1,831	1,733
Allowance for Other Funds Used During Construction	4,189	5,098	5,155	4,980	3,889	2,939
Income Before Interest Charges (Gross Income)	**34,093**	**32,942r**	**31,465**	**28,466**	**25,091**	**22,050**
Interest Charges:						
Interest on Long-Term Debt	14,711	14,470	13,540	12,430	11,483	10,213
Interest on Short-Term Debt	372	504	595	536	813	1,261
Amortization of Debt Discount Expense and Premium	193	131	98	106	72	59
Other Interest Expense	553	465	600	587	615	438
Allowance for Borrowed Funds Used During Construction—Credit	(2,286)	(2,777)	(3,061)	(3,009)	(2,917)	(2,550)
Total Interest Charges	13,544	12,794	11,771	10,649	10,066	9,421
Income Before Extraordinary Items	**20,549**	**20,148r**	**19,694**	**17,816**	**15,025**	**12,628**
Extraordinary Items	(308)	(1,659)	(22)	(228)	121	28
Net Income	**20,241**	**18,489r**	**19,672**	**17,589**	**15,146**	**12,656**
Preferred Dividend Charges	2,747	2,877	2,828	2,715	2,502	2,251
Available for Common Stock	17,494	15,613r	16,844	14,874	12,643	10,405
Common Dividends	12,303	11,782r	11,077	10,306	8,968	7,587
Net Income After Dividends	**$ 5,190**	**$ 3,830**	**$ 5,767**	**$ 4,568**	**$ 3,676**	**$ 2,818**

Note: Total may not equal sum of components due to independent rounding.
Deferred Income Taxes now shown as "Property Related" (previously shown as "Due to Liberalized Depreciation" and "Due to Accelerated Amortization") and "Non-Property Related" (previously shown as "Other Deferred Income Taxes").
( ) Denotes credit or negative value.
r Revised.

TABLE 72
DETAIL OF ELECTRIC OPERATION & MAINTENANCE EXPENSES INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1986	1985	1984	1983	1982	1981
Production	$49,254	$53,068	$52,288	$48,408	$48,010	$47,281
Transmission and Distribution	6,251	6,005	5,614	5,143	4,721	4,172
Customer Accounts	2,723	2,537	2,383	2,224	2,109	1,858
Customer Service and Information	826	760	745	643	512	396
Sales	93	65	47	37	34	31
Administrative and General	8,514	7,865	7,084	6,437	5,855	5,104
Total Operation & Maintenance Expenses	**$67,663**	**$70,300**	**$68,161**	**$62,892**	**$61,242**	**$58,842**
Cost of Fuel*	$31,195	$36,635	$37,297	$36,174	$36,627	$37,165

Note: Total may not equal sum of components due to independent rounding.
**Included in "Total Operation & Maintenance Expenses."*

TABLE 73
DETAIL OF TAXES – ELECTRIC DEPARTMENT ONLY INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1986		1985		1984	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 5,877	4.6%	$ 4,637	3.7%	$ 3,857	3.2%
Deferred Taxes on Income*	4,610	3.6	3,810	3.0	3,094	2.6
Other Deferred Income Taxes**	1,458	1.2	2,428	1.9	3,417	2.8
Miscellaneous Taxes	895	0.7	818	0.7	777	0.6
Total Federal Taxes Charged to Income	12,841	10.1	11,693	9.3	11,145	9.3
State and Local Taxes	9,694	7.6	9,055	7.2	8,740	7.3
Total Taxes Charged to Income	**$22,534**	**17.7%**	**$20,748**	**16.5%**	**$19,884**	**16.6%**

	1983		1982		1981	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 2,845	2.6%	$ 2,853	2.8%	$ 1,702	1.8%
Deferred Taxes on Income*	2,546	2.3	1,842	1.8	1,541	1.6
Other Deferred Income Taxes**	3,423	3.2	2,012	2.0	1,871	2.0
Miscellaneous Taxes	680	0.6	617	0.6	544	0.6
Total Federal Taxes Charged to Income	9,495	8.7	7,324	7.2	5,658	6.0
State and Local Taxes	8,028	7.3	7,280	7.2	6,537	6.9
Total Taxes Charged to Income	**$17,523**	**16.0%**	**$14,604**	**14.4%**	**$12,195**	**12.9%**

Note: Total may not equal sum of components due to independent rounding.
**Due to liberalized depreciation and accelerated amortization.*
***Includes investment tax credits reported as charges to income for the current year.*

TABLE 74

CAPITALIZATION AND CAPITALIZATION RATIOS INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1986	1985	1984	1983	1982	1981
CAPITALIZATION OUTSTANDING						
Mortgage Bonds	$115,370	$111,763	$108,997	$104,244	$ 98,998	$ 93,783
Other Long-Term Debt	38,058	37,180	32,696	28,034	24,694	20,780
Total Long-Term Debt	**153,428**	**148,944**	**141,693**	**132,278**	**123,692**	**114,563**
Preferred Stock	27,947	30,614	29,882	29,479	28,616	26,817
Common Capital Stock	51,658	51,556	47,842	44,742	40,491	35,406
Other Paid-In Capital Excluding Retained Earnings*	37,366	34,036	33,886	31,580	27,305	23,838
Retained Earnings	49,362	43,902	40,423	35,369	30,984	27,511
Total Capitalization	**$319,761**	**$309,052**	**$293,727**	**$273,448**	**$251,088**	**$228,135**
CAPITALIZATION RATIOS						
Mortgage Bonds	36.1%	36.2%	37.1%	38.1%	39.5%	41.1%
Other Long-Term Debt	11.9	12.0	11.1	10.3	9.8	9.1
Total Long-Term Debt	**48.0**	**48.2**	**48.2**	**48.4**	**49.3**	**50.2**
Preferred Stock	8.7	9.9	10.2	10.8	11.4	11.8
Common Capital Stock Equity	43.3	41.9	41.6	40.8	39.3	38.0
Total Capitalization	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Note: Total may not equal sum of components due to independent rounding.
**Includes Premium on Common and Preferred Stock.*

TABLE 75

PUBLIC UTILITY LONG-TERM FINANCING
INVESTOR-OWNED UTILITIES

BY YEAR, TYPE OF ISSUE, PURPOSE AND TYPE OF UTILITY
1981-1986 – THOUSANDS OF DOLLARS

	1986	1985	1984	1983	1982	1981
ELECTRIC UTILITIES						
LONG-TERM DEBT						
New Capital	$10,344,120	$ 9,188,802	$ 9,380,990	$ 6,831,791	$ 8,438,379	$ 8,576,941
Refunding	11,047,010	3,328,435	812,500	751,064	786,195	351,954
Divestment	—	—	—	—	—	—
Total Long-Term Debt	21,391,130	12,517,237	10,173,490	7,582,855	9,224,570	8,928,895
PREFERRED STOCK						
New Capital	985,000	655,000	888,000	1,902,750	1,096,830	1,173,750
Refunding	695,600	—	—	—	40,000	—
Divestment	—	—	—	—	—	—
Total Preferred	1,680,600	655,000	888,000	1,902,750	2,136,830	1,173,750
COMMON STOCK						
New Capital	639,945	1,578,763	861,633	3,082,855	5,003,687	4,089,481
Refunding	33,750	71,250	68,500	—	21,103	—
Divestment	—	—	—	—	—	—
Total Common	639,695	1,650,013	930,133	3,082,855	5,024,790	4,089,481
TOTAL CAPITAL						
New Capital	11,935,065	11,422,565	11,110,623	11,817,396	15,538,892	13,840,172
Refunding	11,776,360	3,399,685	881,000	751,064	847,298	351,954
Divestment	—	—	—	—	—	—
Total Capital	$23,711,425	$14,822,250	$11,991,623	$12,568,460	$16,386,190	$14,192,126
GAS UTILITIES						
LONG-TERM DEBT						
New Capital	$ 2,768,500	$ 1,382,240	$ 756,000	$ 1,210,020	$ 1,897,096	$ 1,669,000
Refunding	1,111,500	203,510	50,000	110,480	17,904	116,000
Divestment	—	—	—	—	—	—
Total Long-Term Debt	3,880,500	1,585,750	805,000	1,320,500	1,915,000	1,785,000
PREFERRED STOCK						
New Capital			100,000	240,000	357,000	130,000
Refunding		100,000				
Divestment						
Total Preferred	—	100,000	100,000	240,000	357,000	130,000
COMMON STOCK						
New Capital	224,269	44,375	78,263	364,179	40,025	192,463
Refunding			16,591	33,535		
Divestment						
Total Common	224,269	44,375	94,854	397,714	40,025	192,463
TOTAL CAPITAL						
New Capital	2,992,769	1,426,615	934,263	1,814,199	2,294,121	1,991,463
Refunding	1,111,500	303,510	66,591	144,015	17,904	116,000
Divestment	—	—	—	—	—	—
Total Capital	$ 4,104,769	$ 1,730,125	$ 999,854	$ 1,958,214	$ 2,312,025	$ 2,107,463
ALL OTHER UTILITIES†						
LONG-TERM DEBT						
New Capital	$ 1,375,610	$ 851,750	$ 150,000	$ 1,151,056	$ 495,000	$ 2,578,000
Refunding	7,951,390	2,560,000	310,000	363,445	—	168,000
Divestment	—	—	—	—	—	—
Total Long-Term Debt	9,326,000	3,411,750	460,000	1,514,500	495,000	3,746,000
PREFERRED STOCK						
New Capital					40,000	
Refunding						
Divestment						
Total Preferred	—	—	—	—	40,000	—
COMMON STOCK						
New Capital	101,086	475,100	—	1,093,504	1,558,876	984,053
Refunding						
Divestment						
Total Common	101,086	475,100	—	1,093,504	1,558,876	984,053
TOTAL CAPITAL						
New Capital	1,476,696	1,326,850	150,000	2,244,559	2,093,876	3,562,053
Refunding	7,951,390	2,560,000	310,000	363,445	—	168,000
Divestment	—	—	—	—	—	—
Total Capital	$ 9,427,086	$ 3,886,850	$ 460,000	$ 2,608,004	$ 2,093,876	$ 4,730,053
TOTAL UTILITY FINANCING						
LONG-TERM DEBT						
New Capital	$15,488,230	$11,422,792	$10,286,990	$ 9,192,866	$10,830,475	$12,823,941
Refunding	20,109,900	6,091,945	1,172,500	1,264,989	804,099	635,954
Divestment	—	—	—	—	—	—
Total Long-Term Debt	34,597,630	17,514,737	11,459,490	10,457,855	11,634,570	14,459,895
PREFERRED STOCK						
New Capital	985,000	655,000	988,000	2,142,750	2,493,830	1,303,750
Refunding	695,600	100,000	—	—	40,000	—
Divestment	—	—	—	—	—	—
Total Preferred	1,680,600	755,000	988,000	2,142,750	2,533,830	1,303,750
COMMON STOCK						
New Capital	1,017,300	2,098,238	934,896	4,541,038	6,602,588	5,265,997
Refunding	33,750	71,250	85,091	33,535	21,103	—
Divestment	—	—	—	—	—	—
Total Common	965,050	2,169,488	1,024,987	4,574,073	6,623,691	5,265,997
TOTAL CAPITAL						
New Capital	16,490,530	14,176,030	12,143,886	15,876,654	19,926,893	22,393,688
Refunding	20,839,250	6,263,195	1,257,591	1,277,964	865,202	635,954
Divestment	—	—	—	—	—	—
Total Capital	$37,243,280	$20,439,225	$13,401,477	$17,134,678	$20,792,091	$23,029,642

Classification as to type of utility is based upon predominant source of revenue. *Includes gas pipeline companies.
† Other Utilities and water. Transit, miscellaneous and nonregulated companies not included.
Note: Includes nonregulated sales of products and services – 1986, $7,570 million; 1985, $6,071 million; 1984, $3,850 million; 1983, $1,632 million; 1982, $1,727 million and 1981, $1,787 million.
Source: Edison Electric Institute.

TABLE 76

WEIGHTED AVERAGE OF YIELDS ON NEWLY ISSUED DOMESTIC BONDS AND PREFERRED STOCKS

1966-1986

Year	Utility Bonds				Industrial Bonds	Preferred Stocks
	Electric and Gas	Telephone	Water Works	All Utilities		All Utilities
1986	**9.61%**	**8.96%**	....	**9.45%**	**9.38%**	**8.26%**
1985	11.83	11.54	11.18%	11.78	11.64	10.08
1984	14.25	12.73	....	13.33	12.58	13.16
1983	12.70	11.72	....	12.53	11.50	12.06
1982	14.93	14.23	....	14.56	13.65	14.42
1981	16.31	15.45	....	16.30	15.16	15.11
1980	13.46	12.59	....	13.09	11.66	12.28
1979	10.85	10.29	....	10.64	9.49	9.76
1978	9.30	9.07	....	9.22	8.98	9.03
1977	8.43	8.21	....	8.38	8.15	8.43
1976	8.92	8.41	....	8.80	8.61	9.12
1975	9.97	9.27	....	9.76	9.12	10.63
1974	9.59	9.22	....	9.21	8.87	9.95
1973	7.91	7.87	....	7.88	7.86	7.50
1972	7.50	7.36	....	7.46	7.51	7.53
1971	7.72	7.58	....	7.71	7.80	7.74
1970	8.79	8.75	....	8.85	8.86	9.01
1969	7.98	8.00	....	7.99	7.84	7.75
1968	6.80	6.55	7.17	6.72	6.64	6.44
1967	6.07	5.77	6.01	6.01	5.79	6.03
1966	5.53	5.51	5.02	5.61	5.52	5.37

Source: Moody's Investors Service.

TABLE 77

MOODY'S AVERAGE YIELDS ON UTILITY BONDS AND STOCKS

BY MOODY'S BOND RATINGS AND STOCK QUALITY GROUPS

1976-1986

	BONDS					PREFERRED STOCKS			COMMON STOCKS					
		Rating							High Quality		Good Quality		Medium Quality	
End of Month	Over-all* Average	Aaa**	Aa	A	Baa	aa High Quality	a Good Quality	baa Medium Quality	Yield	E/P Ratio†	Yield	E/P Ratio†	Yield	E/P Ratio†
1986														
December	9.00%	8.46%	8.85%	9.14%	9.54%	7.98%	8.64%	9.27%	5.48%	7.53%	6.91%	9.28%	7.96%	10.92%
September	9.39	8.88	9.26	9.48	9.95	8.09	8.76	9.36	5.49	7.46	6.97	9.55	8.15	11.48
June	9.16	8.67	9.05	9.23	9.70	8.54	9.32	9.89	5.57	7.55	7.23	9.64	8.24	11.21
March	8.93	8.30	8.75	9.06	9.60	8.61	9.05	9.78	6.07	8.32	7.16	9.84	9.01	11.17
1985														
December	10.56	9.99	10.30	10.75	11.19	10.00	10.28	11.09	7.34	11.66	8.40	11.67	9.60	13.57
September	11.95	11.29	11.73	12.07	12.69r	10.60	11.05	12.52	8.36	13.30	9.74	13.66	10.88	15.63
June	11.93	11.16	11.60	12.16	12.81	10.25	10.83	11.97	7.46	11.83	8.59	12.22	9.48	13.78
March	13.59	12.90	13.45	13.86	14.13	11.62	12.32	12.98	8.13	13.32	9.15	13.33	10.48	15.12
1984														
December	12.96	12.54	12.79	13.02	13.49	12.25	12.97	13.71	8.26	14.10	9.65	13.73	10.96	15.60
September	13.95		13.38	14.13	14.35	12.31	13.31	14.28	8.64	14.86	10.43	14.48	11.90	16.97
June	15.32		14.96	15.25	15.76	13.28	14.22	14.85	9.55	17.01	11.51	15.88	13.34	18.84
March	14.16		13.78	14.04	14.66	12.40	13.12	13.55	9.65	16.89	11.37	15.64	12.81	18.77
1983														
December	13.46	12.96	13.15	13.50	14.22	12.18	12.61	13.34	8.83	15.32	10.43	13.95	11.97	17.04
September	13.20	12.66	12.87	13.27	13.98	11.70	12.15	12.72	9.03	15.26	10.17	14.00	10.86	14.94
June	13.13	12.32	12.63	13.54	14.04	11.34	12.05	12.47	9.37	15.11	10.75	14.29	10.84	14.29
March	13.26	12.23	12.66	13.82	14.34	11.17	11.79	12.51	9.35	14.77	10.19	14.14	11.13	14.41
1982														
December	13.50	12.30	12.68	14.37	14.65	11.63	12.20	13.26	9.22	15.20	10.56	14.77	11.43	14.79
September	14.39	12.97	13.76	15.31	15.52	12.84	13.49	14.11	9.64	15.91	11.30	15.78	12.15	16.17
June	16.37	15.55	16.04	16.56	17.32	14.30	14.69	15.67	10.08	14.13	11.96	15.95	13.03	17.33
March	16.19	15.15	15.62	16.64	17.35	14.44	14.81	15.48	10.09	16.74	11.53	15.96	12.74	16.72
1981														
December	16.23	14.88	15.90	16.68	17.45	14.97	15.47	15.83	11.01	16.19	11.72	14.43	13.53	17.58
September	17.56	16.74	17.43	17.84	18.21	14.68	15.28	16.01	11.52	16.74	12.01	14.73	13.96	18.07
June	15.49	14.47	15.06	15.84	16.60	13.75	14.15	15.02	10.94	15.78	11.70	14.05	12.88	16.95
March	14.86	13.96	14.61	15.17	15.69	13.35	13.72	14.57	11.71	16.51	12.20	15.21	13.30	17.63
1980														
December	14.11	13.18	13.91	14.14	15.20	13.15	14.01	14.56	11.49	15.65	12.36	16.86	13.27	17.01
September	13.68	12.91	13.49	13.74	14.58	12.02	12.92	13.76	11.37	15.46	11.83	16.01	12.77	15.71
June	12.04	11.30	11.84	12.22	12.81	10.59	10.97	12.05	10.24	13.41	10.65	14.36	11.52	13.22
March	14.57	13.35	14.57	14.96	15.41	13.09	14.74	15.22	12.15	15.50	12.52	18.27	13.93	19.11
1979														
December	11.85	11.09	11.62	11.97	12.71	10.86	11.49	12.75	10.57	15.89	11.00	15.61	12.23	14.86
September	10.39	9.75	10.10	10.62	11.08	9.60	10.34	10.97	9.81	14.82	10.37	15.29	10.92	13.71
June	9.90	9.39	9.73	10.04	10.45	9.03	9.55	10.49	9.18	13.87	9.83	14.24	10.31	12.93
March	10.02	9.60	9.90	10.06	10.51	9.10	9.63	10.33	9.13	13.73	9.66	14.16	10.04	13.04
1978														
December	9.82	9.47	9.65	9.84	10.31	8.94	9.65	10.48	9.38	13.19	9.89	13.89	10.01	12.77
September	9.23	8.91	9.15	9.29	9.57	8.43	8.82	9.62	8.37	11.80	8.88	12.82	9.15	11.99
June	9.36	8.99	9.24	9.46	9.73	8.84	9.39	9.81	8.35	11.67	8.95	12.74	9.20	12.41
March	8.97	8.61	8.80	8.99	9.47	8.35	8.79	9.24	8.35	12.46	8.62	12.66	8.86	11.39
1977														
December	8.75	8.39	8.63	8.77	9.21	8.14	8.59	9.03	7.55	12.32	8.04	12.30	8.43	11.27
September	8.47	8.12	8.37	8.48	8.89	7.95	8.32	8.87	7.29	12.49	7.83	11.96	8.25	11.64
June	8.46	8.07	8.29	8.52	8.97	8.03	8.47	8.92	7.23	12.34	7.57	11.45	8.23	11.86
March	8.70	8.26	8.55	8.77	9.22	8.21	8.75	9.01	7.32	13.01	7.74	12.04	8.68	12.77
1976														
December	8.54	8.05	8.37	8.59	9.16	8.28	8.80	9.15	7.18	11.36	7.79	11.73	8.23	11.17
September	8.87	8.57	8.65	8.81	9.45	8.58	9.04	9.45	7.39	11.31	7.82	11.44	8.60	11.26
June	9.36	8.87	9.08	9.43	10.06	8.92	9.46	9.79	8.40	12.72	8.84	12.99	9.28	12.15
March	9.34	8.67	9.07	9.58	10.04	8.92	9.52	9.73	8.13	11.99	8.51	13.08	9.11	12.15

Note: Yields shown under preferred stocks and common stocks represent averages of ten companies in each quality group.

**Average yield for 40 utility bonds, ten in each of the four top quality ratings shown.*

***The Aaa public utility average was suspended January 17, 1984, because of a lack of appropriate issues and reinstated on October 12. The 1984 high and low for the Average Utility and the Aaa Utility, were determined when a Aaa Utility was available.*

† Ratio in percent is obtained by dividing earnings per share by market price per share.

r Revised.

Source: Moody's Investors Service.

TABLE 78

MOODY'S 24 UTILITY COMMON STOCKS
END-OF-MONTH AVERAGES

Year	Average	January	February	March	April	May	June	July	August	September	October	November	December
						MARKET PRICE – WEIGHTED AVERAGE – $ PER SHARE							
1987	...	**123.06**	**118.35**	**113.48**	**107.29**	**102.78**	**105.83**	**102.44**	...	...	...	...	...
1986	111.11	97.44	106.11	109.01	102.23	104.88	109.23	117.40	125.66	112.15	117.57	117.99	113.66
1985	87.08	80.47	81.05	83.66	85.91	89.32	92.81	87.22	89.43	83.59	88.10	90.39	94.98
1984	71.16	71.08	68.08	66.74	65.95	66.09	66.49	68.12	70.45	74.77	77.05	78.99	80.16
1983	74.04	72.53	73.59	73.79	75.39	75.35	71.73	72.19	72.50	74.88	78.18	76.37	72.03
1982	63.56	57.95	60.16	60.77	63.15	63.23	61.15	59.16	66.63	66.10	66.83	67.34	70.26
						DIVIDEND RATE – WEIGHTED AVERAGE – $ PER SHARE							
1987	...	**9.09**	**9.09**	**9.09**	**9.12**	**9.13**	**9.13**	**9.13**	...	...	...	...	...
1986	8.89	8.80	8.80	8.80	8.84	8.89	8.89	8.94	8.94	8.94	8.95	8.96	8.97
1985	8.61	8.44	8.46	8.48	8.52	8.61	8.66	8.66	8.66	8.69	8.69	8.70	8.71
1984	8.26	8.11	8.12	8.14	8.17	8.25	8.30	8.31	8.34	8.34	8.34	8.35	8.37
1983	7.87	7.73	7.75	7.76	7.80	7.86	7.86	7.87	7.87	7.97	7.97	7.98	8.00
1982	7.43	7.20	7.22	7.31	7.32	7.42	7.44	7.48	7.48	7.55	7.56	7.57	7.64
						YIELD – %							
1987	...	**7.39**	**7.68**	**8.01**	**8.50**	**8.88**	**8.63**	**8.91**	...	...	...	...	...
1986	8.00	9.03	8.29	8.07	8.65	8.48	8.14	7.61	7.11	7.97	7.61	7.59	7.89
1985	9.89	10.49	10.44	10.14	9.92	9.64	9.33	9.93	9.68	10.40	9.86	9.62	9.17
1984	11.61	11.41	11.93	12.20	12.39	12.48	12.48	12.20	11.84	11.15	10.82	10.57	10.44
1983	10.63	10.66	10.53	10.52	10.35	10.43	10.96	10.90	10.86	10.64	10.19	10.45	11.11
1982	11.69	12.42	12.00	12.03	11.59	11.73	12.17	12.64	11.23	11.42	11.31	11.24	10.37

	EARNINGS – WEIGHTED AVERAGE – $ PER SHARE			
	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1987	**12.86**	...	...	...
1986	12.40	12.72	13.17	13.13
1985	12.66	12.65	12.67	12.53
1984	12.35	12.56	12.48	12.67
1983	10.87	10.87	11.49	11.88
1982	10.52	10.60	11.06	10.90

Note: Quarterly earnings are for the 12 months ended March 31, June 30, September 30 and December 31.
Source: Moody's Investors Service.

ECONOMICS AND OTHER

SECTION X

TABLE 82

CONSUMER PRICE INDEX, 1963-1986

1967 EQUALS 100

Year	All Items		Food and Beverages		Housing	
	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1986*	**328.4**	**1.9**	**311.8**	**3.2**	**360.2**	**2.9**
1985*	322.2	3.6	302.0	2.3	349.9	4.0
1984*	311.1	4.3	295.1	3.8	336.5	4.1
1983*	298.4	3.2	284.4	2.2	323.1	2.7
1982*	289.1	6.1	278.2	4.1	314.7	7.2
1981*	272.4	10.4	267.3	7.8	293.5	11.5
1980*	246.8	13.5	248.0	8.5	263.3	15.8
1979*	217.4	11.3	228.5	10.8	227.6	12.2
1978*	195.4	7.7	206.3	9.7	202.8	8.7
1977	181.5	6.5	188.0	6.0	186.5	6.8
1976	170.5	5.8	177.4	3.1	174.6	6.1
1975	161.2	9.1	172.1	8.4	164.5	10.6
1974	147.7	11.0	158.7	13.8	148.8	11.3
1973	133.1	6.2	139.5	13.2	133.7	4.4
1972	125.3	3.3	123.2	4.1	128.1	3.8
1971	121.3	4.3	118.3	3.1	123.4	4.4
1970	116.3	5.9	114.7	5.4	118.2	7.1
1969	109.8	5.4	108.8	5.0	110.4	6.2
1968	104.2	4.2	103.6	3.6	104.0	4.0
1967	100.0	2.9	100.0		100.0	2.9
1966	97.2	2.9			97.2	2.4
1965	94.5	1.7			94.9	1.2
1964	92.9	1.3			93.8	1.2
1963	91.7	1.2			92.7	1.1

Year	Transportation		Gas and Electricity		Electricity	
	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1986*	**307.5**	**(3.9)**	**446.7**	**(1.3)**	**369.0**	**1.3**
1985*	319.9	2.6	452.7	1.7	364.1	3.5
1984*	311.7	4.5	445.2	3.8	351.8	6.4
1983*	298.4	2.4	428.7	8.9	330.6	3.2
1982*	291.5	4.1	393.8	13.8	320.3	9.9
1981*	280.0	12.1	345.9	14.6	291.5	15.0
1980*	249.7	17.8	301.8	17.1	253.4	15.7
1979*	212.0	14.3	257.8	10.8	219.1	7.7
1978*	185.5	4.7	232.6	9.0	203.4	7.4
1977	177.2	7.1	213.4	12.9	189.3	6.6
1976	165.5	9.9	189.0	11.4	177.6	6.3
1975	150.6	9.4	169.6	16.3	167.0	13.2
1974	137.7	11.2	145.8	15.3	147.5	18.1
1973	123.8	3.3	126.4	4.9	124.9	5.0
1972	119.9	1.1	120.5	5.1	118.9	5.0
1971	118.6	5.2	114.7	6.9	113.2	5.6
1970	112.7	5.1	107.3	4.4	106.2	3.3
1969	107.2	3.9	102.8	1.9	102.8	1.9
1968	103.2	3.2	100.9	0.9	100.9	0.9
1967	100.0	2.9	100.0	0.4	100.0	0.9
1966	97.2	1.4	99.6	0.2	99.1	0.0
1965	95.9	1.7	99.4	0.0	99.1	(0.5)
1964	94.3	1.4	99.4	0.0	99.6	(0.5)
1963	93.0	0.5	99.4	0.0	100.1	0.0

*Data beginning 1978 are for All Urban Consumers, earlier data are for Urban Wage Earners and Clerical Workers.

Source: U.S. Department of Labor, Bureau of Labor Statistics, CPI Detailed Report and Monthly Labor Review.

TABLE 83

RESIDENTIAL ELECTRICITY AND CONSUMER PRICE INDEX TOTAL ELECTRIC UTILITY INDUSTRY

Year	Average Revenue per Residential kWh Used	Average Rate per kWh Based on Average of Typical Bills in Cities* Price per kWh for Monthly Use of 100 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	U.S. Bureau of Labor Statistics Index Numbers Based on 1967 = 100† Electricity	Consumer Price Index
		(Energy Information Administration)						
1986	7.44¢p	....	....	....	....	....	369.0	328.4
1985	7.39r	....	9.19¢	8.51¢	7.84¢	7.75¢	364.1	322.2
1984	7.17	....	9.04	8.37	7.71	7.64	351.8	311.1
1983	6.83	....	8.63	8.04	7.30	7.28	330.6	298.4
1982	6.44	....	8.29	7.67	7.03	7.00	320.3	289.1
1981	5.86	....	7.93	7.39	6.68	6.64	291.5	272.4
1980	5.12	....	7.10	6.52	5.87	5.82	253.4	246.8
1979	4.43	....	6.11	5.56	4.92	4.87	219.1	217.4
1978	4.03	7.10¢	5.54	4.61	4.36	4.31	203.4	195.4
1977	3.78	6.87	5.39	4.44	4.16	4.10	189.3	181.5
1976	3.45	6.54	5.14	4.17	3.90	3.82	177.6	170.5
1975	3.21	6.15	4.82	3.85	3.57	3.49	167.0	161.2
1974	2.83	5.89	4.60	3.59	3.30	3.23	147.5	147.7
1973	2.38	4.99	3.79	2.82	2.55	2.49	124.9	133.1
1972	2.29	4.65	3.47	2.51	2.26	2.19	118.9	125.3
1971	2.19	4.51	3.34	2.40	2.15	2.07	113.2	121.3
1970	2.10	4.25	3.14	2.23	2.00	1.92	106.2	116.3
1969	2.09	4.09	3.00	2.10	1.90	1.83	102.8	109.8
1968	2.12	4.05	2.96	2.06	1.86	1.80	100.9	104.2
1967	2.17	4.03	2.95	2.07	1.89	1.83	100.0	100.0
1966	2.20	4.03	2.95	2.07	1.89	1.83	99.1	97.2

*As determined by the Energy Information Administration in its "Typical Electric Bills." The figures cover rate schedules as of December 31 in all cities with populations of 2,500 or more.

† "Index numbers" are percentages of the base year 1967. For a description of the components and characteristics of this index, see BLS Handbook of Methods, Bulletin #1711 for 1971. Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.

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TABLE 84

PRODUCER PRICE INDEX – ALL ITEMS AND SELECTED INDUSTRIAL COMMODITIES

1967 EQUALS 100

	All Items		Metals and Metal Products		Machinery and Equipment		Furniture and Household Durables		Fuels and Related Products and Power	
Year	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1986	**299.8**	**(2.9)**	**311.2**	**(1.2)**	**303.3**	**1.7**	**224.0**	**1.1**	**483.5**	**(23.7)**
1985	308.7	(0.5)	314.9	(0.3)	298.1	1.7	221.6	1.4	633.6	(3.6)
1984	310.3	2.4	316.0	2.9	293.1	2.3	218.6	2.2	657.0	(1.3)
1983	303.1	1.3	307.1	1.8	286.4	2.8	213.9	3.4	665.9	(4.0)
1982	299.3	2.0	301.8	0.5	278.7	5.9	206.8	4.2	693.4	(0.1)
1981	293.4	9.2	300.4	4.9	263.1	9.7	198.4	5.7	694.4	21.0
1980	268.8	14.1	286.4	10.5	239.8	12.1	187.7	9.6	574.0	40.7
1979	235.6	12.6	259.3	14.2	213.9	9.1	171.3	6.8	408.1	26.5
1978	209.3	7.8	227.1	8.7	196.1	7.9	160.4	5.9	322.5	6.7
1977	194.2	6.1	209.0	8.7	181.7	6.3	151.5	4.1	302.2	13.8
1976	183.0	4.6	195.9	5.5	171.0	5.9	145.6	4.2	265.6	8.4
1975	174.9	9.2	185.6	8.0	161.4	15.8	139.7	9.2	245.1	17.7
1974	160.1	18.9	171.9	29.4	139.4	14.5	127.9	11.0	208.3	55.1
1973	134.7	13.1	132.8	7.5	121.7	3.2	115.2	3.4	134.3	13.8
1972	119.1	4.5	123.5	4.0	117.9	2.1	111.4	1.3	118.6	3.0
1971	114.0	3.3	118.7	1.8	115.5	3.7	110.0	2.3	115.2	8.5
1970	110.4	3.7	116.6	7.5	111.4	4.6	107.5	2.5	106.2	5.3
1969	106.5	3.9	108.5	5.8	106.5	3.2	104.9	2.0	100.9	2.0
1968	102.5	2.5	102.6	2.6	103.2	3.2	102.8	2.8	98.9	(1.1)
1967	100.0	0.1	100.0	1.2	100.0	3.3	100.0	2.0	100.0	2.2
1966	99.8	3.3	98.8	2.5	96.8	3.1	98.0	1.1	97.8	2.4

	Coal		Gas Fuels		Electric Power		Crude Petroleum		Petroleum Products, Refined	
Year	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1986	**538.8**	**(1.4)**	**882.4**	**(15.7)**	**457.8**	**0.9**	**344.0**	**(44.5)**	**405.2**	**(36.0)**
1985	546.7	0.1	1,047.0	(5.7)	453.6	3.1	619.4	(7.6)	633.1	(4.8)
1984	546.0	1.7	1,109.9	(3.3)	440.0	5.3	670.5	(1.6)	665.3	(3.1)
1983	536.8	0.3	1,147.9	8.2	418.0	2.8	681.5	(7.1)	686.4	(9.9)
1982	535.3	7.6	1,061.2	12.9	406.6	10.9	733.5	(8.7)	761.5	(5.5)
1981	497.3	6.4	939.8	23.5	366.8	14.1	803.6	44.4	805.8	19.4
1980	467.3	3.6	760.7	39.8	321.6	18.7	556.4	47.8	674.7	51.7
1979	450.9	4.9	544.1	26.9	270.9	8.1	376.5	25.4	444.8	38.6
1978	430.0	10.4	428.7	10.5	250.6	7.6	300.1	9.4	321.0	4.2
1977	389.4	5.6	387.8	35.2	232.9	12.1	274.2	8.1	308.2	11.4
1976	368.7	(4.4)	286.8	32.3	207.6	7.4	253.6	3.2	276.6	7.4
1975	385.8	16.1	216.7	33.6	193.4	18.6	245.7	16.0	257.5	15.3
1974	332.4	52.4	162.2	28.0	163.1	26.1	211.8	68.1	223.4	73.5
1973	218.1	12.5	126.7	11.0	129.3	6.4	126.0	10.7	128.7	18.2
1972	193.8	6.5	114.1	5.2	121.5	4.6	113.8	(0.7)	108.9	1.6
1971	182.0	21.1	108.5	4.7	116.2	9.7	114.6	8.0	107.2	6.1
1970	150.3	33.5	103.6	11.0	105.9	4.0	106.1	0.9	101.0	1.4
1969	112.6	8.6	93.3	0.5	101.8	0.9	105.2	4.4	99.6	1.5
1968	103.7	3.7	92.7	(7.3)	100.9	0.9	100.8	0.8	98.1	(1.9)
1967	100.0	4.7	100.0	3.5	100.0	0.4	100.0	1.1	100.0	2.7
1966	95.5	2.2	96.7	4.2	99.6	(0.5)	98.9	0.7	97.4	3.8

Source: U.S. Department of Labor, Bureau of Statistics, Producer Price Indexes.

TABLE 85

COST TRENDS OF ELECTRIC LIGHT AND POWER CONSTRUCTION*

BY GEOGRAPHIC DIVISIONS—1966-1987
1973 EQUALS 100

Date	North Atlantic	South Atlantic	North Central	South Central	Plateau	Pacific
Jan. 1, 1987	249	242	250	249	248	259
July 1, 1986	249	243	250	249	249	260
Jan. 1, 1986	246	241	247	249	247	260
July 1, 1985	244	240	245	247	247	258
Jan. 1, 1985	243	241	245	249	248	258
July 1, 1984	239	237	241	246	248	259
Jan. 1, 1984	233	233	236	243	244	255
July 1, 1983	231	233	236	242	245	254
Jan. 1, 1983	226	230	231	239	240	250
July 1, 1982	222	227	229	234	236	247
Jan. 1, 1982	218	222	226	231	232	240
July 1, 1981	209	218	215	222	222	230
Jan. 1, 1981	203	210	208	214	216	225
July 1, 1980	193	197	196	203	202	209
Jan. 1, 1980	186	191	190	195	197	200
July 1, 1979	178	182	181	187	188	192
Jan. 1, 1979	168	174	173	178	179	181
July 1, 1978	161	165	165	169	170	173
Jan. 1, 1978	156	161	159	164	166	168
July 1, 1977	154	158	157	162	163	165
Jan. 1, 1977	147	152	149	155	155	157
July 1, 1976	145	148	146	151	152	151
Jan. 1, 1976	140	144	141	146	145	146
July 1, 1975	138	140	140	142	143	141
Jan. 1, 1975	130	133	132	134	133	132
July 1, 1974	119	120	120	122	120	120
Jan. 1, 1974	105	105	104	105	105	105
July 1, 1973	100	100	100	100	100	100
Jan. 1, 1973	95	96	96	95	96	96
July 1, 1972	93	94	94	93	94	94
Jan. 1, 1972	92	91	94	91	92	93
July 1, 1971	87	88	90	88	89	89
Jan. 1, 1971	83	84	86	85	85	85
July 1, 1970	80	81	83	83	82	82
Jan. 1, 1970	77	79	80	80	80	80
July 1, 1969	74	76	77	77	77	77
Jan. 1, 1969	72	73	74	74	74	74
July 1, 1968	71	71	72	73	73	73
Jan. 1, 1968	69	70	71	72	72	72
July 1, 1967	68	68	69	70	70	71
Jan. 1, 1967	67	67	67	68	68	69
July 1, 1966	66	66	66	67	67	68
Jan. 1, 1966	64	65	65	66	66	67

* *Index numbers shown are a composite of over 50 material and labor items included in the Handy-Whitman Index service of cost indexes of construction and equipment, all steam.*

Source: Handy-Whitman Index of Public Utility Construction Costs. Published by courtesy of Whitman, Requardt and Associates, Baltimore, Maryland.

TABLE 86

COST OF INDUSTRIAL PURCHASED ELECTRIC POWER AS A PERCENT OF VALUE OF PRODUCT SHIPMENT

U.S. AVERAGE 1980—1985

Standard Industrial Classification	Industry	1985	1984	1983	1982	1981	1980
20	Food and Kindred Products	0.9	0.9	0.9	0.8	0.8	0.7
21	Tobacco Manufacturers	0.4	0.4	0.4	0.4	0.4	0.5
22	Textile Mill Products	2.3	2.3	2.2	2.2	1.9	1.8
23	Apparel and Other Textile Products	0.7	0.7r	0.7	0.7	0.7	0.7
24	Lumber and Wood Products	1.5	1.5	1.4	1.5	1.3	1.1
25	Furniture and Fixtures	0.9	0.9	0.9	0.9	0.9	0.8
26	Paper and Allied Products	4.1	3.9	4.1	3.8	3.6	3.3
27	Printing and Publishing	0.7	0.8	0.7	0.7	0.7	0.7
28	Chemicals and Allied Products	3.0	3.1r	3.0	3.3	3.0	2.8
29	Petroleum and Coal Products	1.2	1.1	1.0	0.8	0.7	0.7
30	Rubber and Miscellaneous Plastics Products	2.1	2.0	2.1	2.1	2.0	1.9
31	Leather and Leather Products	0.8	0.8	0.8	0.7	0.7	0.7
32	Stone, Clay and Glass Products	2.9	2.9	2.9	2.9	2.7	2.5
33	Primary Metal Industries	4.8	4.8	4.6	4.6	3.8	3.5
34	Fabricated Metal Products	1.2	1.3	1.2	1.2	1.1	1.0
35	Machinery, Except Electrical	0.9	0.9	0.9	0.9	0.8	0.7
36	Electric and Electronic Equipment	1.0	1.0	1.0	1.0	1.0	0.9
37	Transportation Equipment	0.6	0.6	0.7	0.7	0.7	0.7
38	Instruments and Related Products	0.8	0.8	0.8	0.7	0.7	0.6
39	Miscellaneous Manufacturing Industries	0.8	0.9	0.9	0.8	0.8	0.7
	Total Manufacturing	1.5	1.5	1.5	1.5	1.4	1.4

r Revised.

Source: U.S. Department of Commerce. Bureau of the Census. Annual Survey of Manufactures. Statistics for Industry Groups and Industries.

TABLE 87

WEIGHTED AVERAGE ELECTRIC BILLS (DOLLARS)

BY CENSUS DIVISION AND CERTAIN CLASS OF SERVICE

1985—1986

Residential Service

Division	January 1, 1986					January 1, 1985				
	250 kWh	500 kWh	750 kWh	1,000 kWh	2,500 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	2,500 kWh
New England	$25.64	$47.48	$65.36	$86.94	$204.12	$26.67	$49.57	$68.12	$ 90.71	$213.05
Middle Atlantic	31.43	56.95	74.63	99.36	229.84	31.63	57.32	75.23	100.09	236.58
East North Central	23.27	41.69	56.19	72.10	153.97	21.90	39.53	53.94	69.73	150.26
West North Central	20.04	37.00	50.99	66.14	136.06	18.91	35.01	48.22	62.59	128.96
South Atlantic	22.69	40.23	56.46	73.20	169.98	21.58	38.32	53.88	69.81	162.03
East South Central	18.20	32.17	44.58	56.94	129.27	17.44	30.74	42.72	54.59	124.21
West South Central	21.36	38.88	54.30	69.35	147.31	21.68	38.06	52.33	66.40	145.13
Mountain	21.33	38.20	54.51	70.24	161.93	20.41	36.78	52.58	67.84	153.94
Pacific	17.01	37.43	55.96	78.83	198.95	16.84	37.24	55.68	78.38	196.73
Alaska & Hawaii	27.88	49.97	71.94	93.96	226.09	29.25	52.70	76.06	99.42	239.61
U.S. Average	$22.97	$42.54	$58.79	$77.50	$177.21	$22.61	$41.86	$57.86	$ 76.37	$175.99

Commercial Service

	January 1, 1986					January 1, 1985				
	12 kW 1,500 kWh	30 kW 6,000 kWh	40 kW 10,000 kWh	50 kW 12,500 kWh	100 kW 30,000 kWh	12 kW 1,500 kWh	30 kW 6,000 kWh	40 kW 10,000 kWh	50 kW 12,500 kWh	100 kW 30,000 kWh
New England	$179.91	$622.79	$ 950.72	$1,172.98	$2,596.85	$191.32	$651.98	$1,000.00	$1,234.53	$2,745.97
Middle Atlantic	257.11	799.67	1,202.01	1,500.69	3,291.10	240.65	814.54	1,239.66	1,547.39	3,443.94
East North Central	163.01	557.41	857.90	1,065.41	2,381.70	156.30	539.48	836.12	1,038.20	2,332.40
West North Central	125.13	444.33	687.71	850.84	1,879.98	120.45	430.41	665.76	823.66	1,818.23
South Atlantic	132.38	484.68	755.81	936.56	2,085.33	128.12	469.45	731.52	906.00	2,020.01
East South Central	111.68	401.32	643.66	833.12	1,856.76	105.72	379.63	608.59	758.16	1,751.98
West South Central	132.30	467.30	720.82	892.05	1,965.25	130.10	461.76	715.24	886.24	1,952.21
Mountain	138.22	472.57	756.37	946.76	2,079.14	118.93	438.42	719.93	900.41	1,970.47
Pacific	136.37	524.91	847.30	1,055.66	2,476.67	131.90	510.12	822.10	1,024.39	2,402.71
Alaska & Hawaii	154.28	589.33	913.91	1,138.63	2,579.67	162.23	608.06	982.23	1,224.38	2,875.17
U.S. Average	$162.60	$560.88	$869.43	$1,082.44	$2,420.85	$162.81	$574.30	$ 892.88	$1,110.79	$2,495.24

Industrial Service

	January 1, 1986				January 1, 1985			
	150 kW 30,000 kWh	300 kW 60,000 kWh	1,000 kW 200,000 kWh	5,000 kW 1,500,000 kWh	150 kW 30,000 kWh	300 kW 60,000 kWh	1,000 kW 200,000 kWh	5,000 kW 1,500,000 kWh
New England	$2,839	$5,375	$16,771	$112,929	$2,991	$5,668	$17,784	$120,285
Middle Atlantic	3,547	6,934	21,355	126,453	3,736	7,352	22,316	142,410
East North Central	2,697	5,217	17,721	108,512	2,607	5,031	16,807	102,974
West North Central	2,046	3,992	12,735	80,081	1,961	3,820	12,139	76,555
South Atlantic	2,335	4,643	15,146	90,604	2,277	4,490	14,672	87,771
East South Central	2,144	4,291	13,333	81,609	2,013	4,031	12,462	77,292
West South Central	2,219	4,387	13,907	88,981	2,198	4,343	13,842	88,326
Mountain	2,372	4,635	14,859	91,040	2,245	4,376	13,890	86,095
Pacific	2,580	5,125	16,273	114,384	2,510	4,958	16,373	114,327
Alaska & Hawaii	2,908	5,908	18,710	120,449	3,169	6,050	19,341	127,539
U.S. Average	$2,656	$5,208	$16,652	$104,910	$2,628	$5,136	$16,621	$105,606

Source: U.S. Department of Energy, Energy Information Administration, Typical Electric Bills.

TABLE 88

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE – TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1986p	1985r	1984r
Total United States*	**611,929**	**607,833**	**600,218**
Maine	3,710	3,684	3,740
New Hampshire	2,279	2,278	2,275
Vermont	1,785	1,787	1,777
Massachusetts	5,329	5,295	5,272
Rhode Island	667	699	707
Connecticut	1,824	1,815	1,740
New England	**15,594**	**15,558**	**15,511**
New York	20,160	20,777	20,050
New Jersey	6,288	6,310	6,262
Pennsylvania	20,222	20,154	19,328
Middle Atlantic	**46,670**	**47,241**	**45,640**
Ohio	21,604	21,585	21,332
Indiana	14,970	14,812	14,881
Illinois	16,570	16,873	16,962
Michigan	18,066	18,021	17,970
Wisconsin	9,636	9,547	9,641
East North Central	**80,846**	**80,838**	**80,786**
Minnesota	10,123	10,318	10,358
Iowa	10,855	10,938	10,956
Missouri	12,138	12,075	12,061
North Dakota	7,009	7,018	7,031
South Dakota	6,884	6,828	6,720
Nebraska	13,373	13,280	13,182
Kansas	10,765	10,791	10,782
West North Central	**71,147**	**71,248**	**71,090**
Delaware	2,551	2,468	2,369
Maryland	8,616	8,682	8,676
District of Columbia	10	12	12
Virginia	12,316	12,131	11,843
West Virginia	8,174	7,458	7,396
North Carolina	23,400	23,285	23,053
South Carolina	19,517	19,337	19,165
Georgia	21,893	21,380	21,353
Florida	16,828	15,876	15,468
South Atlantic	**113,305**	**110,629**	**109,335**
Kentucky	12,856	12,812	12,721
Tennessee	31,968	31,555	30,143
Alabama	13,779	13,926	13,821
Mississippi	12,901	12,952	12,830
East South Central	**71,504**	**71,245**	**69,515**
Arkansas	7,219	7,209	7,064
Louisiana	11,636	11,553	11,415
Oklahoma	9,932	9,891	9,799
Texas	46,814	45,746	44,854
West South Central	**75,601**	**74,399**	**73,132**
Montana	10,523	10,385	10,413
Idaho	11,687	11,636	11,566
Wyoming	5,109	4,983	4,980
Colorado	7,213	7,091	6,907
New Mexico	7,321	7,191	6,955
Arizona	12,070	11,766	11,656
Utah	6,266	6,209	5,792
Nevada	5,598	5,565	5,476
Mountain	**65,787**	**64,826**	**63,745**
Washington	17,697	17,706	17,552
Oregon	11,625	11,650	11,647
California	40,586	40,930	40,838
Pacific	**69,908**	**70,286**	**70,037**
Alaska	102	99	79
Hawaii	1,465	1,464	1,348
Alaska & Hawaii	**1,567**	**1,563**	**1,427**

Nominal Voltage	Circuit Miles 1986p	1985r	1984r
Total	**611,929**	**607,833**	**600,218**
22,000- 30,000	86,110	84,187	81,314
31,000- 40,000	67,862	66,515	65,944
41,000- 50,000	37,429	37,879	37,686
51,000- 70,000	105,988	104,541	104,689
71,000-131,000	92,206	93,257	93,164
132,000-143,000	67,356	67,538	67,068
144,000-188,000	22,185	22,044	22,143
189,000-253,000	61,594	61,291	60,566
254,000-400,000	44,020	44,087	42,311
401,000-600,000	24,062	23,472	22,391
601,000-800,000	3,117	3,022	2,942

*Does not include the following miles of line operated by REA Cooperatives: 1986 – 71,302; 1985 – 70,800; 1984 – 70,400.

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TABLE 89

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE – INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1986p	1985r	1984r
Total United States	**482,798**	**480,082**	**474,717**
Maine	3,685	3,659	3,715
New Hampshire	2,279	2,278	2,275
Vermont	1,680	1,682	1,672
Massachusetts	5,293	5,268	5,243
Rhode Island	667	699	707
Connecticut	1,789	1,781	1,706
New England	**15,393**	**15,367**	**15,318**
New York	19,035	19,652	19,018
New Jersey	6,278	6,300	6,252
Pennsylvania	20,222	20,154	19,328
Middle Atlantic	**45,535**	**46,106**	**44,598**
Ohio	21,548	21,528	21,276
Indiana	14,863	14,701	14,765
Illinois	16,352	16,647	16,734
Michigan	17,993	17,948	17,897
Wisconsin	9,560	9,471	9,555
East North Central	**80,316**	**80,295**	**80,227**
Minnesota	9,769	9,964	10,025
Iowa	10,311	10,416	10,435
Missouri	10,927	10,889	10,801
North Dakota	4,988	4,997	5,011
South Dakota	3,491	3,436	3,328
Nebraska	94	94	94
Kansas	10,040	10,070	10,057
West North Central	**49,620**	**49,866**	**49,751**
Delaware	2,514	2,439	2,340
Maryland	8,613	8,679	8,673
District of Columbia	10	12	12
Virginia	11,312	11,127	10,839
West Virginia	8,174	7,458	7,396
North Carolina	22,800	22,595	22,368
South Carolina	16,225	16,045	15,873
Georgia	16,881	16,346	16,340
Florida	12,352	12,268	12,031
South Atlantic	**98,881**	**96,969**	**95,872**
Kentucky	7,915	7,895	7,873
Tennessee	245	243	242
Alabama	9,752	9,738	9,633
Mississippi	9,542	9,593	9,471
East South Central	**27,454**	**27,469**	**27,219**
Arkansas	6,675	6,630	6,486
Louisiana	11,435	11,352	11,221
Oklahoma	8,275	8,178	8,410
Texas	42,470	41,495	40,580
West South Central	**68,855**	**67,655**	**66,697**
Montana	8,093	8,029	8,049
Idaho	10,912	10,861	10,788
Wyoming	3,121	2,990	2,987
Colorado	4,677	4,553	4,389
New Mexico	7,129	6,999	6,767
Arizona	6,866	6,856	6,815
Utah	6,095	6,038	5,606
Nevada	4,613	4,580	4,455
Mountain	**51,506**	**50,906**	**49,856**
Washington	4,076	4,106	4,014
Oregon	6,157	6,185	6,190
California	33,535	33,689	33,625
Pacific	**43,768**	**43,980**	**43,829**
Alaska	5	5	2
Hawaii	1,465	1,464	1,348
Alaska & Hawaii	**1,470**	**1,469**	**1,350**

Nominal Voltage	Circuit Miles 1986p	1985r	1984r
Total	**482,798**	**480,082**	**474,717**
22,000- 30,000	53,569	52,298	50,923
31,000- 40,000	60,436	59,207	58,664
41,000- 50,000	32,759	33,014	32,818
51,000- 70,000	86,964	87,020	87,291
71,000-131,000	74,499	74,690	74,573
132,000-143,000	61,228	61,320	61,061
144,000-188,000	10,039	9,962	10,048
189,000-253,000	46,905	46,655	46,139
254,000-400,000	37,408	37,559	35,954
401,000-600,000	16,584	16,045	15,014
601,000-800,000	2,407	2,312	2,232

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TABLE 90

AVERAGE NUMBER OF EMPLOYEES INVESTOR-OWNED ELECTRIC UTILITIES

ELECTRIC DEPARTMENT

Year	Operation and Maintenance	Construction	Total
1986	**414,900**	**104,146**	**519,046**
1985	403,497	121,006	524,503
1984	395,500	120,600	516,100
1983	397,800	115,400	513,200
1982	388,400	116,700	505,100
1981	375,900	114,600	490,500
1980	368,400	108,200	476,600
1979	356,200	106,800	463,000
1978	341,500	103,000	444,500
1977	326,800	99,700	426,500
1976	317,600	99,100	416,700
1975	310,500	101,000	411,500
1974	311,700	107,400	419,100
1973	307,200	107,900	415,100
1972	299,200	102,300	401,500
1971	295,200	98,500	393,700
1970	290,200	94,700	384,900
1969	282,600	89,900	372,500
1968	279,300	86,000	365,300
1967	275,500	81,900	357,400
1966	271,000	78,100	349,100

GLOSSARY

Allowance for Funds Used During Construction (AFUDC): An amount recorded by a company to represent the cost of those funds used to finance construction work in progress. See Glossary of Electric Utility Terms.

Capability: The maximum load which a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time, without exceeding approved limits of temperature and stress.

Capacity: The load for which a generating unit, generating station, or other electrical apparatus is rated either by the user or by the manufacturer. See also Name Plate Rating.

Capital Expenditures: Cost of construction of new utility plant (additions, betterments, and replacements) and expenditures for the purchase or acquisition of existing utility plant facilities.

Capitalization: The total of: Long-Term Debt, Preferred Stock and Common Stock Equity. For balance sheet presentation, several modifications are sometimes made: current maturities of Long-Term Debt are not included in the Capitalization section, but Short-Term Debt (with an original maturity of less than one year) which will be refinanced by Long-Term Debt is sometimes included.

Class of Service: A group of customers with similar characteristics (i.e., residential, commercial, industrial, sales for resale, etc.) which are identified for the purpose of setting a rate for electric service.

Construction Expenditures: Expenditures (may or may not include Interest and/or Other Overheads Charged to Construction) for construction including additions to and betterments, renewals, and replacements of utility plant during a specific period, but not money spent for maintenance or for the acquisition of existing utility systems or segments.

Consumer Price Index (CPI): This index is issued by the U.S. Department of Labor, Bureau of Labor Statistics, as a measure of average changes in the retail prices of goods and services usually bought by two groups. The first group consists of the families of wage earners and clerical workers living in cities. The second group consists of all urban consumers.

Customers, Average: The arithmetic averages of month-end customers in each of 12 consecutive months. For those billed other than every month, the number of such customers is adjusted to a 12-month basis (e.g., for bimonthly billing the number of customers billed, or counted, in each month is multiplied by two and the resultant averaged for the 12-month period).

Demand: The rate at which electric energy is delivered to or by a system, part of a system, or a piece of equipment. It is expressed in kilowatts, kilovoltamperes or other suitable unit at a given instant or averaged over any designated period of time. The primary source of "Demand" is the power-consuming equipment of the customers.

Electric Generation—Net: Gross generation less kilowatthours consumed for generation station use.

Electric Utility Industry: All enterprises engaged in the production and/or distribution of electricity for use by the public, including:

Investor-Owned Electric Utilities organized as tax-paying business usually financed by the sale of securities, in the free market.

Cooperatively-Owned Utilities A group of persons who have organized a joint venture for the purpose of supplying electric energy to a specified area.

Government-Owned includes municipal systems, federal agencies, state projects, and public power districts, and, where the data are not separable, those industrial plants contributing to the public supply.

Expenses, Operating: A group of expenses applicable to utility operations composed of: Operation Expense, Maintenance Expense, Provisions for Depreciation and Amortization, Taxes Other Than Income Taxes, Income Taxes, Provisions for Deferred Income Taxes, Income Taxes Deferred in Prior Years—Credit, and Investment Tax Credit Adjustments—Net.

Fuels, Fossil: Any naturally occurring fuel of an organic nature, such as coal, crude oil, and natural gas.

Industrial Electric Power: Electric generating stations operated by Industrial establishments.

Load Factor: The ratio of the average load in kilowatts supplied during a designated period to the peak or maximum load in kilowatts occurring in that period. Load factor, in percent, also may be derived by multiplying the kilowatthours in the period by 100 and dividing by the product of the maximum demand in kilowatts and the number of hours in the period.

Margin, Percent Capacity: The difference between capability and peak load divided by the capability times 100. Should not be confused with Percent Reserve Margin in which the difference is divided by the peak load.

Name Plate Rating: The full-load continuous rating of a generator, prime mover or other electrical equipment under specified conditions as designated by the manufacturer.

Output, Weekly Electric: The sum of the system output of all investor-owned utilities, rural electric cooperatives, and government power projects in the contiguous United States adjusted for all inter-utility deliveries.

Peak Load: See Demand—The greatest demand which occurs during a specified period of time.

Prime Mover: The engine, turbine, water wheel, or similar machine which drives an electric generator.

Producers Price Index: Formerly known as the wholesale price index, this index is the oldest continuous statistical series published by BLS. It is designed to measure average changes in prices of all commodities, at all stages of processing, produced or imported for sale in primary markets in the U.S.

Revenue, Average: Revenue from the sale of electricity (exclusive of forfeited discounts and penalties) for a particular class of service divided by the corresponding number of kilowatthours sold.

Utility Plant, Electric: All equipment used for the generation, transmission, and distribution of electricity, or an account in which record is kept of this equipment. Includes plant in service, purchased or sold, in process of reclassification, leased to others, held for future use, and under construction, and acquisition adjustments and adjustment accounts, without deduction of Accumulated Provision for Depreciation and Amortization.

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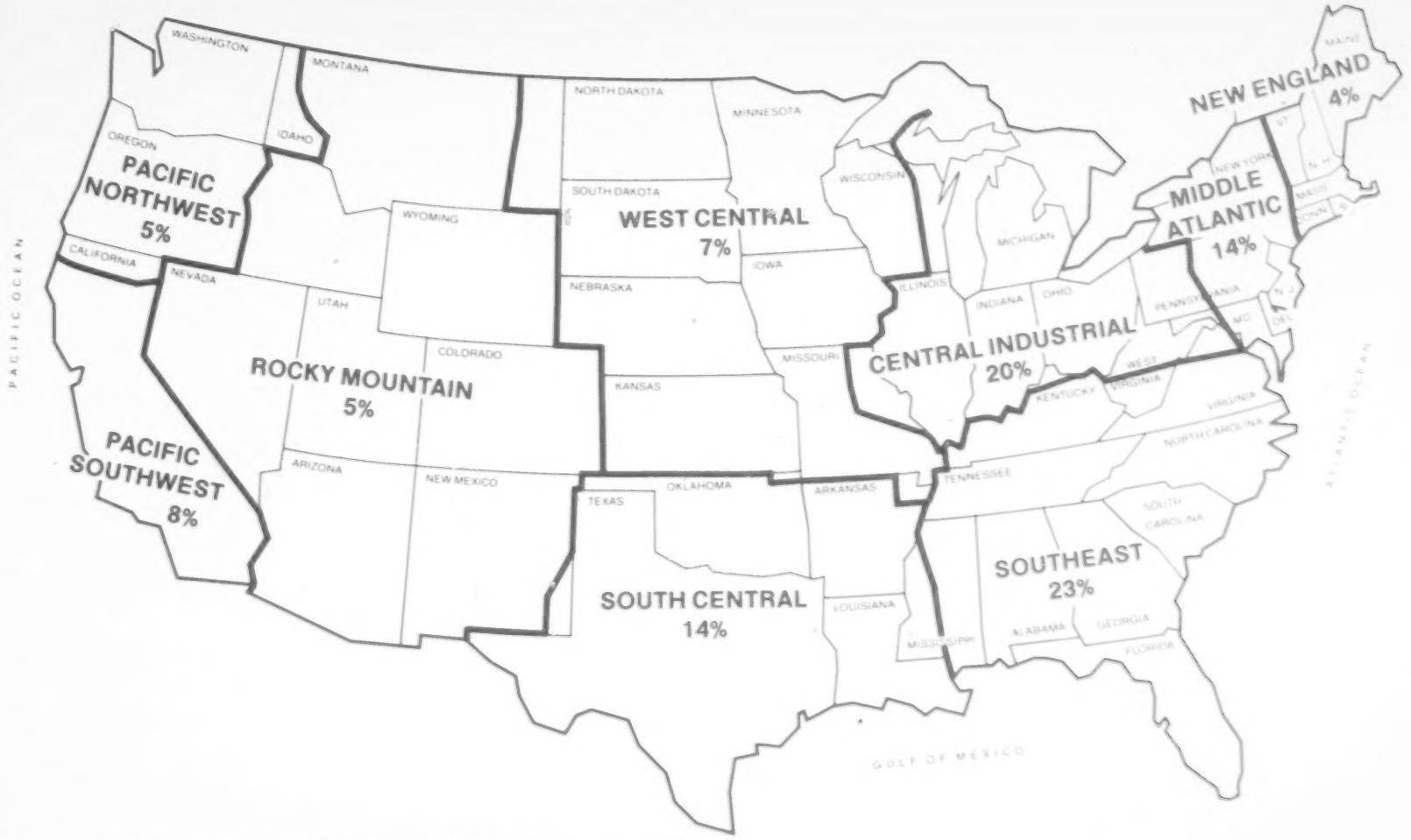

Percentages represent net electric energy generated, plus energy received from others, less energy delivered for resale in each region for the 52 weeks ended December 27, 1986.

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